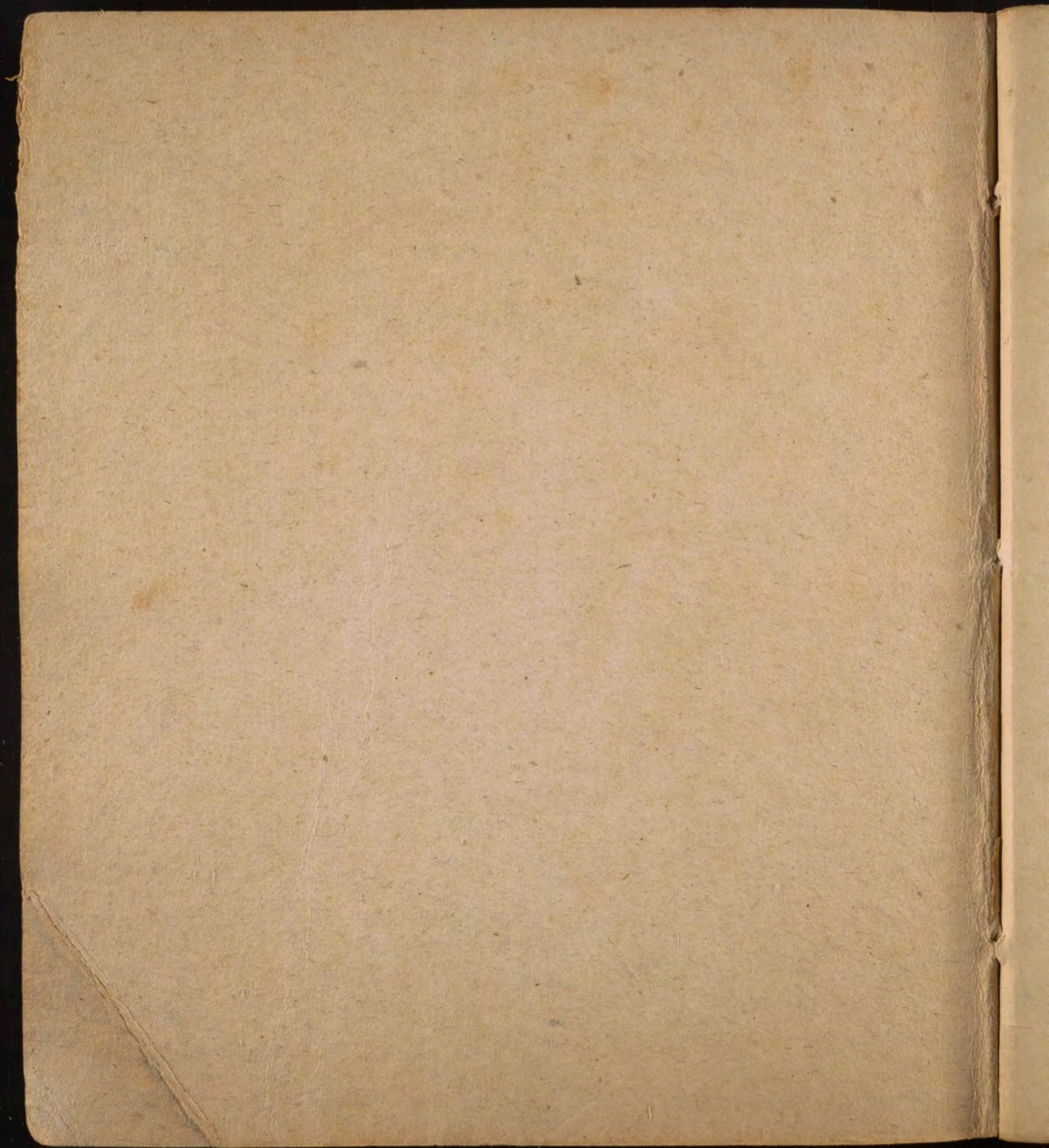


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12



of Local Diseases
of the black color of the
Africans. — 505

of the proximate cause
of Death 525

✓ But again - The diseases of the same systems differ materially in their degrees.

& 9: There is a febris & febricula - There is
 Rheumatismus & Rheumaticula
 Pneumony & Pneumonicula - in the Arter.
 Phrenitis & Phrenicula - or acute & chronic Delirium
 System - There is involuntary motion, and
 motion ^{in its duration} ~~is~~ contrary only to the Will - There
 is Dysentaria & Dysentericula in the Alimen-
 -tary canal - There is Hepatitis acuta and
 chronica - There is leuc & gonorrhoea in the
 Lymphatic system & There are the ^{external} ~~internal~~
 internal measles - & so on in all the other
 Systems. In each of these, the disease is limited
 so closely to the system affected, & acts on it
 so fully, ^{not to confine} as to allow the patient to live.

Lastly - Diseases exist in one part of the same system, and produce their ^{own} storms. I have seen Abscess in lungs only, in ^{a Rheumatism.} health, Asthma only in another. The debility of ~~the system~~ ^{of the system} is seated in the foot, & yet it appears ^{first} in the

Yet keep within the limits of the
dominion formerly assigned to them.

3 The Diseases of the Stomach & Bowels
often exchange situations.

4 The affections of the Skin particularly
Sores - and tetters of all kind ^{frequently} ~~are~~
appear in different seasons in diff^t
parts of the body. —

5 ~~That~~ most of the diseases of the glands
are disposed frequently to change their
places, more especially Dropsies.

The diseases of the two last systems
which I have described, ~~have~~ afford
no instances of Metastasis such as have
been mentioned. ✓

with this we finish the general

week. Swollen lungs excite a ^{vomiting} ~~cough~~ ^a ~~series~~
 a weak stomach a cough —
~~series~~ — and a stone in one kidney has in
 one instance produced pain only in the
 other.

diseases. I have done little more than
 named them. But I have ^{said} ~~delivered~~ ^{into}
 to open a new field of observation to
 your attention. The more you view
 general diseases thro' the medium of the systems
 which I have enumerated, the more
 definite & precise will ^{be} your ideas of
 them. Endeavour to find out new
 relationships between them either ^{these} ~~between~~
~~foreign~~ ^{between} different systems, or remote
 parts of the same system. One great
 advantage will arise from increasing
 this species of knowledge - it will lead
 to the more certain & successful use
 of many Remedies - for they act as
 certainly on specific systems, as those
 systems act on each other. ~~The~~ From a

504 the remote & proximate
review of what has been said of general
causes of
Diseases - I presume no one will now
deny the truth of ^{the leading} the following propo-
-sitions. ~~That~~ of Our pathology.

1 That debility is the universally predi-
-posing cause of all general diseases.

2 That ~~irritation~~ increased or morbid
excitability is the universal effect (when
recent) of ~~deb~~ previous debility.

3 That ^{irregular} ~~irregular~~ ^{or morbid} ~~action~~ - or in other
words, a want of order in ^{animal} motions is
as to ~~time~~ ^{time} & ^{place} ~~constitutes~~ ^{constitutes}

the proximate cause of all the general
diseases of the Sensitive & irritable parts
of the body.

4 That the great Secret of medicine, and
the first consists in the knowledge

V 5 That the multiplication of diseases ^{which}
are the effects of one or at most, of two
original causes ^{resembles} ~~is~~ polytheism in ^{religion} medicine.
The physician who considers every different
affection of the different systems, or ~~differs~~ every
affection of different parts of the same system,
as a distinct disease, resembles the Indian, or
the new negro who considers water - dew -
Ice - snow - and frost as distinct essences,
while the physician who considers disease
as ^{an excited} ~~a~~ state of the ^{part of} system only; and ^{as} derived from
only one cause, viz: debility, resembles the
philosopher who considers ~~ice~~ dew - ^{water} ice - snow
& frost as different states of water, ^{only} and ^{as} all
derived from one cause, ^{viz:} the absence of heat.
Having finished gen^l diseases, I should

System^{ch} is 595
of the ~~parts~~ affected - of the force, or degrees
~~excessive or deficient~~
of ~~vital~~ ~~as~~ ~~in~~ ~~morbid~~ action in it - and
the choice of the remedy suited to the system which
afterwards in ~~the~~ exact accommodation
is adjusted to ~~the~~ force
of ~~a remedy~~ the ~~remedy~~ of that remedy, to
that action the degree of morbid action.

Lect: Feb: 28. 1793.

We come now to speak of the
~~general~~ causes of partial or local dis-

ease. -

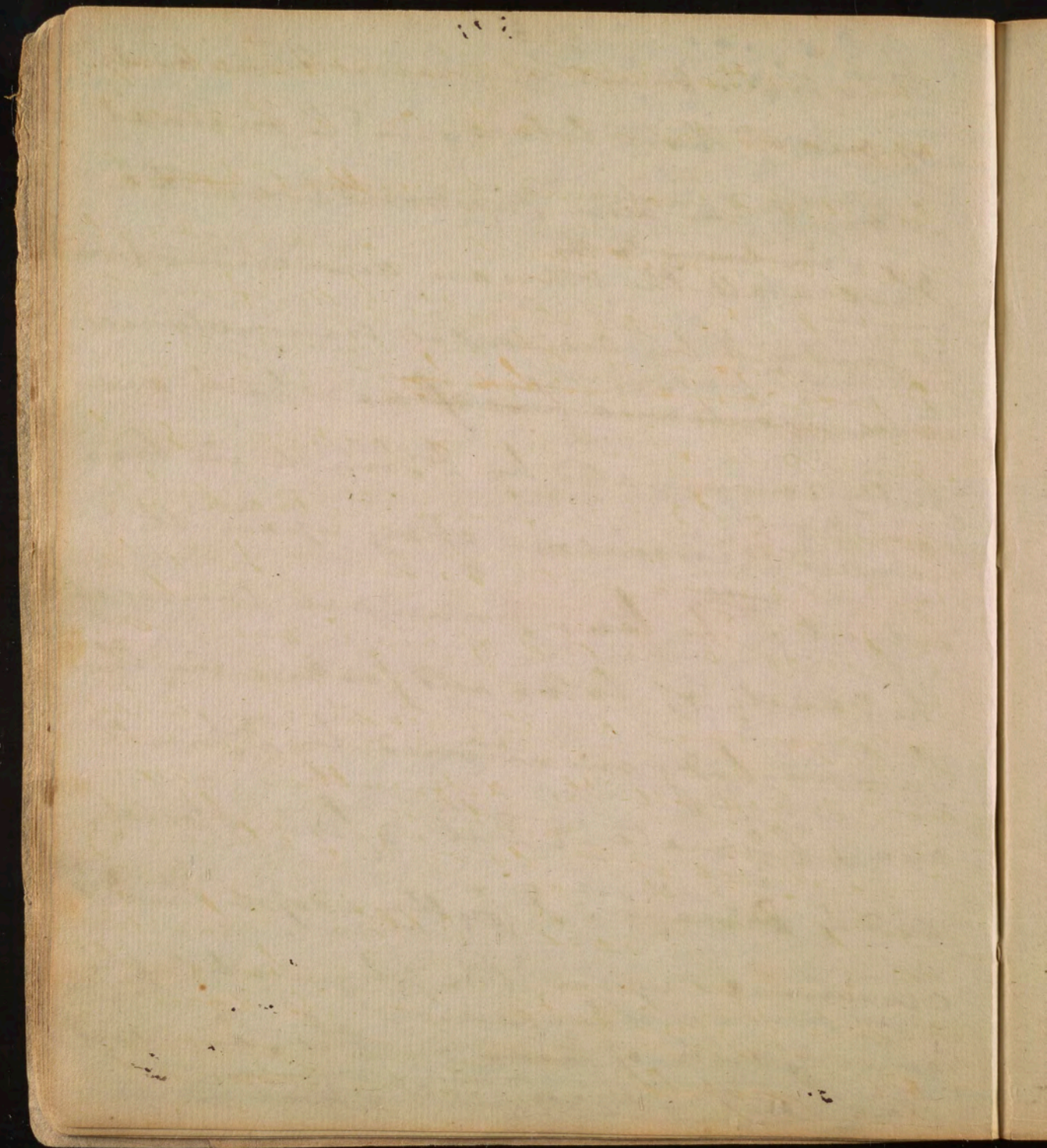
of a Physician
The first thing which strikes the eye
in contemplating the human ~~eye~~ body,
is the variety ^{in the} of color ^{& features} which ~~is~~
observable among
the different nations ^{ch} who inhabit our
globe. This variety must be the effect
of disease, for there can be no doubt
but the whole human race must
have been derived from one pair, &

proceed to treat of their general consequences viz:
disorders. I say general consequences, for there
may be disorder in a part which has not
been preceded by Disease or morbid excitement.

There is likewise frequently a mixture of
disease & disorder in the same part as inflamⁿ.
& Suppuration or fibrinus in the liver ~~disorder~~
Morbid excitement & inflamⁿ. & hemorrhage.

The usual consequences of morbid excitement
or disease are 1 Infⁿ or effusion ^{& circulation} of red globules
into serous vessels - 2 Hemorrhage ^{or effusion} - 3 Effusion
& stagnation of Serum - Coagulable - and
red Blood - first ends in resolution 2 & 3^d in
Suppuration - all 3 in congestion like gangrene.
4 gangrene - or loss of power of emitting life
from great force of action in any part. These
are ^{the} acute effects of disease. Chronic effects are
tubercles - fibrini - ^{& tumors of all kind - cancers} ossification & calcareous
matter - Dropsical swellings - ~~cancers~~ ^{or} many
of them are not preceded by morbid action.

This pair must of course been only
 of one of those colors. — The original
 color it has been supposed was the
Olive ^{inclining to the} — all the others are deviations from
 it produced by accidental circumstances
~~to be mentioned hereafter~~ which are
 fully enumerated by Dr Smith in his
 learned & ingenious essay upon this
 subject. ~~The~~ ^{four} principal causes of
 the variety of color and feature in the
 human body mentioned by Dr Smith
 are 1 Climate - 2 Diet - 3 state of spirits,
 and 4 Disease. I fully adopt the Dr's
 reasonings upon the physical influ-
 -ence of each of ^{these causes} ~~these~~ on the skin and
 face, and will add further ~~that~~ the in



favor of that work, that it has always
 appeared to me to be one of the most
 acute and profound essays that ~~has~~ I
 have ever met with upon a medical
 subject. Perhaps it is the better from the
~~ignorance of~~ ^{ignorance of} ~~any theories of~~ ^{any theories of}
~~Dr. Ross being misled by~~ ^{Dr. Ross being misled by} medicine,
 some one of which perhaps might
 have misled him from the track ^{wh}:
 conducted him with so much success
 & honor to the end of his inquiries.

Ingenious as this work is - it has
 not solved all the difficulties upon
 the subject of the ^{variety of} color & features of
 the human race - Altho it has laid
 a solid foundation for its ^{being} done by
 others. ~~people~~ ^{people}. — If the ^{variety of} ~~lower~~ ^{lower}

I have been thinking of you
 very much lately and wondering
 how you are getting on. I hope
 you are well and happy. I have
 been very busy lately but I
 have managed to find some time
 to write you. I have been
 thinking of you very much lately
 and wondering how you are
 getting on. I hope you are
 well and happy. I have been
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 write you. I have been thinking
 of you very much lately and
 wondering how you are getting
 on. I hope you are well and
 happy. I have been very busy
 lately but I have managed to
 find some time to write you.

color & features be produced by the ^h causes
 which have been mentioned, it has
 been asked why do ^{they} not ~~these~~ disappear
 as soon as the above causes have ceased
 to operate. This is so far from being
 the case, that a negro retains his color
 for ^a century after being rescued from
 the heat of the sun - from unwholesome
 diet ^{from} - from age society ^{from the diseases} and ~~bilious dis-~~
 which have been supposed to be most
 instrumental in producing his
 dark black color. - To this remark there
 is a small ^{exception, for} ~~objection~~ - a considerable
 shade of the black color always dis-
 appears ~~under the above change of~~

[Faint, illegible handwriting in cursive script, likely a letter or journal entry. The text is mostly obscured by fading and bleed-through from the reverse side.]

~~Circumstances~~ in two or three generations,
and the features seldom fail of becoming
regular in the 3rd generation under the
above change of circumstances.

To account then for the duration of
a preternatural color in the skin after
the causes which induced it cease to op-
erate, I need only remind you of a
fact mentioned formerly, & that is
that ^{the qualities of} ~~is a change in the color of the~~
skin are the most transmissible to
posterity of any peculiarity of the
body, and the least liable to be
affected by time or external cir-
cumstances. —

✓ as well as in the state of horticulture
- agriculture - building, & cloathing, by
which ~~are~~ the great sources of marsh
& human miasmata were dried up.

But the deep black color ~~used~~ the big
lips and the flat nose - and the wooly
head of the negro, require a specific
 theory to explain them. I shall offer
 one which I hope will be satisfactory.

I formerly took notice of the influence
 of diet, ~~and~~ manners & the state of society
 in producing diseases of the skin, and
 ascribed the decay of Elephantiasis -
 & Leprosy to the change in the diet, and
 employments of mankind by the
 revival of letters & the change in the
 political state of the ^{Europe} ~~world~~ in the
 14th & 15th Centuries. During the prevalence
 of unwholesome diet - & the prevalence of
 savage manners,

of morbid
V probably by a translation of and
action, & an effusion of morbid humors in the skin
disposition of black bile to the rete
mucosum, for the bile if it is well
known sometimes imparts a black color
to the blood, ^{in biliousness} and also to the whole skin
in that a disease which is known by
the name of the black jaundice. now this

bilious diseases among a people
 who inhabit a hot country, it is
 easy to conceive that a disease may
 have been induced upon the skin which
 we call the Leprosy, ^{by means of a meta-}
^{stasis formerly hinted at,} and when once
 produced in a few families might
 have spread over a ^{considerable} part of the
 globe. — To this Leprosy — I ascribe
 the color of the negroes. my reasons

for this opinion are as follow.

The Leprosy is accompanied
 1 ~~It is the~~ ^{with} ~~the~~ ⁱⁿ ~~impacts~~ ^a in some in-
 = stances, a black color to ^{of} the skin. of

this I have lately met with a most
 satisfactory proof in Dr. Thier's
 Account of the diseases of Astoria

...the ...
...the ...
...the ...

...the ...

...the ...

...the ...
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...the ...

in Spain. I shall give You a translation of his own words upon this subject. "There are says he above 20 hospitals for Lepers in this province - and I have observed six species of the disorder. The 2nd species is called the black Albasas of the Arabians. The skin becomes black - thick - & grairy. There are neither pustules - nor tubercles, nor scales nor any thing out of the way on the skin. The body is not in the least emaciated - The breathing is a little difficult, & the countenance has some fierceness in it. They exhale perpetually a peculiar & disagreeable smell, which I can compare to nothing

✓ This small mentioned by Dr Sherry con-
with a small modification
sists in the Native African to this
day.

† Mr Harkins takes notice of the
in his travels into the interior part of
Africa. They possess the features of the
negro. Mr Harkins has ^{further} described them
in the following words. "This disease
p. 116 - also 117-118. - This artful Imeller
does not stop here - the idea of its being a
disease, and its specific nature did not
escape him - hence he adds - "This
whiteness does not wash off of the skin is com-
mon in Java, Panama where it is perpetuated this many
generations. A diversity frequently occurs
changes equally great in the symptoms
of many other diseases. The same state of
malignant bilious fever is often marked
by ^{opposite colors in the} black and white stools - by opposite

but the smell of a mortified limb! -

~~but the~~

2 This The Leprosy is described in the
^{by ancient writers} ~~Old testament~~ ^{universal} as imparting a preterna-
 = tural whiteness to the skin. This white-
 = ness is sometimes in spots, & again it

extends over the whole body. ^{Persons} ~~thus~~ ^{thus} ~~marked~~ ^{marked} have been called Albinos. +

~~The progress is in every part of the body~~
 It sometimes appears ~~marked~~ with blacky
~~often exhibits these phenomena~~
 spots. A picture of a negro in Virginia ^{mentions}
~~Thunbergworth in his voyage~~

~~marked in whom this mixture of white & black~~
~~was in the case of them.~~ Mr. Peale ~~has~~
~~had taken place has been happily preserved by~~
~~preserved in his museum.~~ ~~the picture~~

of a negro with white spots on his
 skin. - 3 the leprosy is attended with big
~~lips flat nose &c.~~

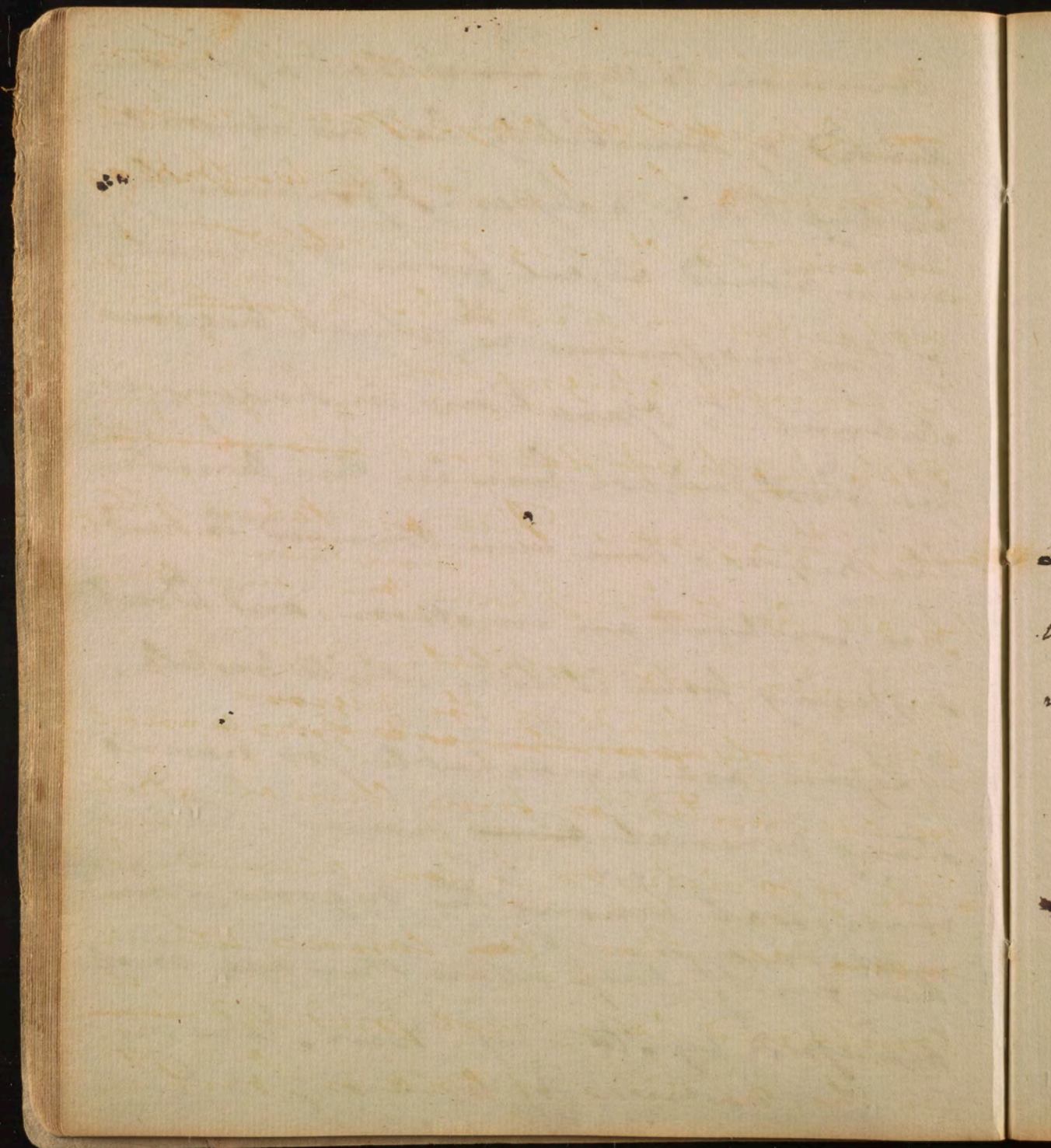
3 The leprosy induces a morbid insensi-
 = bility in the nerves. In countries where
 the disease is common ~~prevails~~ it is

temperature of the skin, & by opposite states
of the alimentary canal.

^{the}
black The original connection of ^{the} ~~this~~
color of the negroes with leprosy is ^{further} suggested
by the following fact extracted from Mr
Bougainville's Voyage &c

common to say ~~was~~ that a person
 devoid of hostility has no more
 feeling than a dog. I formerly
 mentioned a fact from Dr. Morely
 of the indifference ^{to} which negroes
 submit to operations in surgery in
 the West Indies. Even in this country
 the negroes have been observed to handle
 fire without an emotion, and ^{to} not
 suffering from it like white people.

Lepers are remarkable for having
 strong venereal ~~diseases~~ diseases. This is
 universal among the negroes. - hence
 their ^{uncommon} fruitfulness where they are not
 depressed by Slavery. In Slavery



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does not subdue the appetite, for
~~we~~ After whole days spent in hard
labor in a hot sun in the West Indies
we are told the negroes will often
walk five or six miles to ^{comply with} ~~get~~ ^{get} ~~the~~
a venereal apignation. —

5 The big lips & flat nose ^{are symptoms} ~~belong to the~~
Leg of the Leprosy. They are taken notice
by all authors. I have ^{more than} ~~once~~ ^{seen} them
in the Pennsylv: hospital. —

6 The woolly ^{heads of the negroes} ~~heads of the~~ cannot
be accounted for from climate - diet
state of society, or bilious diseases - for
~~none~~ all those ~~the~~ causes when
combined have not produced ^{it} ~~them~~
in the natives of Asia or fourth

[Faint, illegible handwriting in cursive script, likely a historical document or letter.]

who inhabit winter latitudes.

America, & wool is peculiar to the
negro. I see then many proofs of similarity
of the ~~lesser~~ symptoms of leprosy, and
of the peculiarities in the negro body
tell me - but there is one fact in
the history of the leprosy that may
throw some light upon it. The Tricho-
=ma or plica polonica so common
formerly in Poland ~~is~~ ^{is a} was ^{symptom} ~~affairs~~
of leprosy. It affected the hair only,
in a peculiar manner. From this
fact it would seem that the leprosy
had found its way to ^{the covering of the} ~~that part of the~~
head in ^{negroes} ~~body~~, & from the variety of its effects
on the skin, it is ^{as} probable it may
have produced a ~~wool~~ wool in

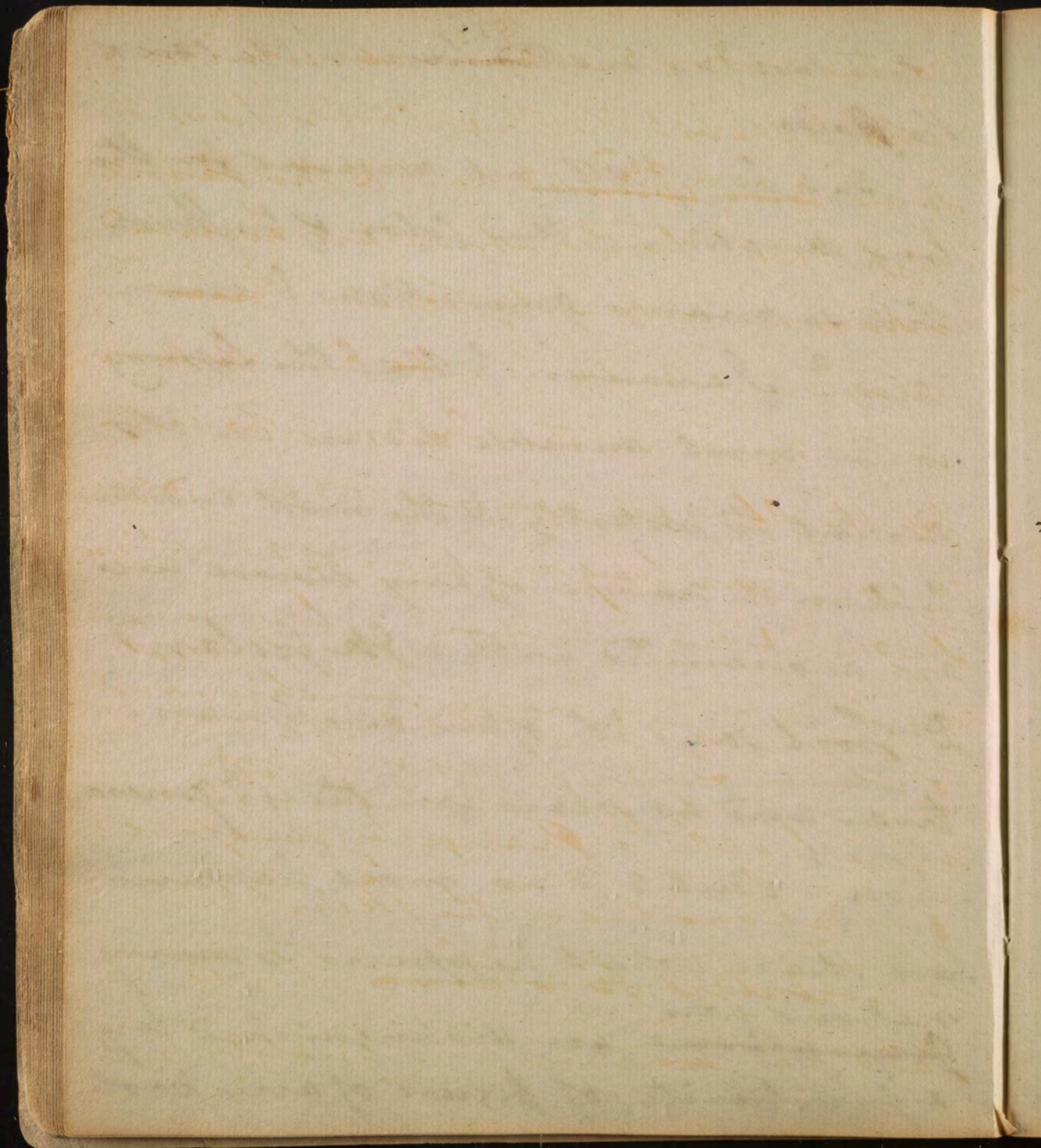
a note

✓ It affects before it appears
as in a family in madras.
A lady of a dysentery family married,
- all her children took the disease
at 16 & died. Her husband then
took it & died, & finally the disorder
appeared in herself - of which
she died.

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This case as matted hair in the case of
the Poles.

But how shall we account for the
long duration of this color of the skin
thru so many generations & even
ages? I answer; that the Leprosy
is the most durable disease in its
descent to posterity, & the most indestruc-
-tible in its nature of any disease we
are acquainted with. Dr Ferriar
Dr Ferriar says it often disappears in
two - and appears in the 4th genera-
-tion - But 2nd no more happens
here than what happens to many
nations who
~~generations~~ are distinguished by
a peculiarity of figure of any part



518
of the body. The ~~ancient~~ Scotch people
who inhabit the Highlands, have the
same ~~color~~ ^{red} ~~coloured~~ hair & the same
high cheek bones which are ascribed
to their ancestors by Tacitus ~~after the~~
Invasion of Britain. The even the tumour
in the throat in the Britons who inha-
bit the Alps are transmitted from father
to son thro' a long succession of generations.
Scrophs & consumption in like manner
are hereditary in many families, and
of which occupy parts of the body much
more liable to change by successive
generations, than the skin.

~~Should it be said~~ ^{no} Should it be
said that ~~the~~ infectious quality exists

V But it is infectious - white
women become dark col^d after
living long with black men, more
especially if they have children by
them. Of this I have heard of two
instances, the one in Penn^a -
the other in Carolina.

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in this color of the ⁵¹⁹skin of negroes, I
answer that this is the case with the
Disease at present in many parts
of the world. ^{It has} ~~no~~ ceased to be commu-
nicated by contact. V

Should it be said that the negroes
are as healthy & long lived as other
people - I answer - that ~~as~~ no local
diseases of the skin affect ~~the~~ the general
health of the body, or the duration of
human life. Dr. Thury says that the
Itch was very common in Astoria,
speaks with surprise of the longevity
of many people who were affected w:
it. In the negroes who are now
in this country, perhaps it w?

✓ The color in the negroes is seated
in the Reticulum. —

be proper rather to consider the black color as an effect of an evanescent disorder. The existence of a solitary symptom of a Disease after the disease is cured is no uncommon thing. ^{in the} many A dark color often continues ~~a~~ ^{many} days on the tongue after the cure of a bilious fever, & ~~the~~ red marks often appear on the skin many months after the recovery from the small pox.

The theory I have endeavoured to establish leads to two very natural reflections. 1 That all the claims of superiority of the Whites over the blacks on acc^t of their color are founded in ignorance & inhumanity. If

✓ equality of mankind.

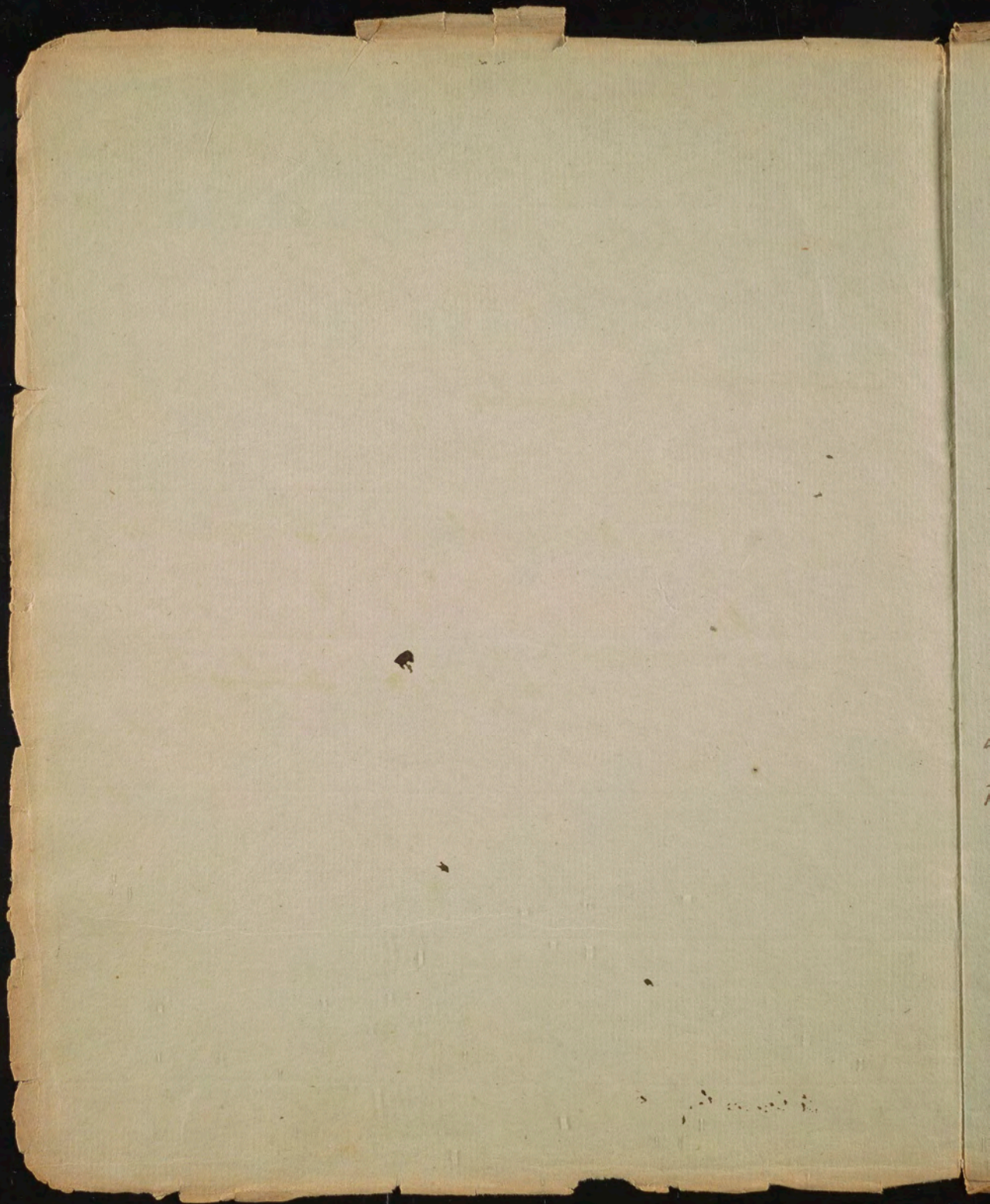
3rd Is the black color of the negroes a disease,² ~~and are all diseases curable?~~

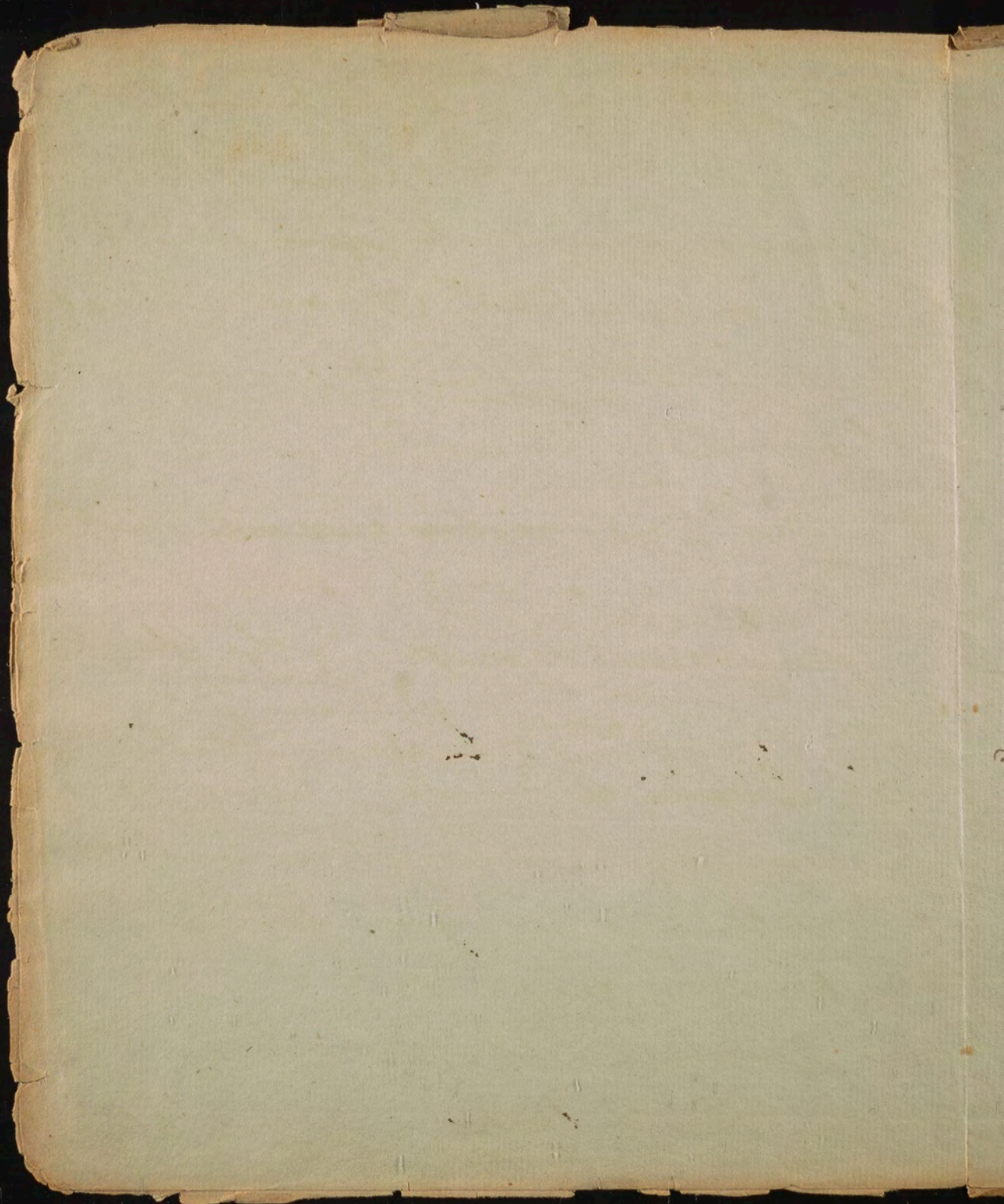
- then let humanity & science combine their strongest efforts, & endeavour to discover a remedy for it. Nature has lately unfolded a banner upon this subject. ~~I invited us to her~~ ^{begin} ~~Standard~~ She has ~~performed~~ several spontaneous cures of this disease of the skin in several black people in this country. In a certain Henry Pross who lately travelled thro' this city, and was exhibited as a show for money, the cure was nearly complete. The change from black

the color of the negroes be the effect of a disease, instead of inviting us to tyrannize over them, it should entitle them to a double portion of our humanity, for disease all over the world has always been considered as the signal of compassion. —

2 If the theory I have delivered should ^{as persons of a different kind,} teach us the necessity of keeping up that ~~in~~ ^{prejudice} ~~segregation~~ against ~~as a matter~~ such connections with them as would tend to infect posterity with any portion of their disorder. & This may be done upon the principle I have mentioned without offering any violence to humanity, or calling in question the original descent and natural

to a natural white flesh color began
 about $\frac{5}{4}$ years ago at the ends of his
 fingers, and has extended gradually
 over the greatest part of his body. The
~~pore of the~~ ^{pore} which formerly perforated
 the cuticle in this man has been
 changed into hair. — No change in the
 diet, drinks, dress, employment or
 situation of this man, had taken
 place previously to this change in
 his skin. — But this fact does not
 militate against ^{artificial} attempts to dislodge
 the color in negroes, any more than
 the spontaneous cure of many other
 diseases militate against the use





part of the body. — It is from the latter
 I conclude, that the palms of the hands
 of negro women who ~~stand~~ spend their
 lives of at a wash-trap are generally
 as fair as the palms of the hands in
 labouring white people. —

2 Depletion ~~has an indirect~~ whether
 by V.:- purging, or abstinence has a
 certain effect in lightening the black
 color in negroes. ~~As many facts induce~~
 me to believe ^{and} it is ^{an} alterative med: it wd
~~be a~~ ^{cause depmory.} similar change tho' of
 a more temporary nature has often
 been observed in negroes from the
 influence of fear. —

4 Dr Beddoes tells us that he has
 discharged the color in the black

in them produce a large portion of happiness in the world. We shall 1 destroy
One of the arguments in favor of the
~~color~~ enslaving the negroes, for this
Color has been supposed by the ignorant
to mark them as objects of ^{the divine} ~~divine~~
~~divine~~ misery from the ~~judgements~~ judgements, of heaven,
& by the harmed to qualify them for con-
-stant labor in hot & unwholesome
climates. 2 We shall add greatly to $\frac{2}{y}$
happiness, for however much they pre-
-tend to be satisfied with their color, there
are many proofs of their preferring that
of the white people.

3 We shall under the belief of the
whole human race being descended
from one pair, ~~but~~ more easy, &

brood of negroes by infusing it in
 oxygenated muriatic acid, & leprosy it in
 by the same means in the hand of a
 negro man. see Dr. Anthon's: fact p. 120

5 ~~A citizen of Philad^a~~ A citizen
 of Philad^a upon whose veracity I have
 perfect reliance assured me that he had
 once seen the skin of ^{one} the side of the
 cheek inclining to the chin, and of
 that part of the hand in a negro boy
 changed ^{by the juice of unripe peaches} in the ~~same~~ by his eating
~~unripe~~ of (which he was very fond
 of eating) falling & resting frequently
 upon those parts of ^{his} the body.

To encourage attempts to cure
 this disease of the skin in negroes, let
 us recollect that we shall by succeeding

universal, and thereby not only add
weight to the Christian revelation, but
remove a material obstacle to the exer-
cise of ~~its~~ ^{that} ~~that divine precept~~ ^{its}
universal benevolence which is in-
culcated by it.

599.184.000

V ~~Old age~~ Old age is the effect
of such a decay of or loss of the
sensitivity & contractility of the
body, as to render it incapable
of ~~emitting~~ receiving & propagating
the motions of life. ~~This~~ such is the
change in this respect induced on
the Solids, that ~~they~~ some of them
viz: the arteries are sometimes con-
verted into bone. Excitement & exit?
are both exhausted in old age, and death
from old age is nothing but a general
palsy. I said formerly it began first
in the Eyes, & Sphincter of the Bladder.

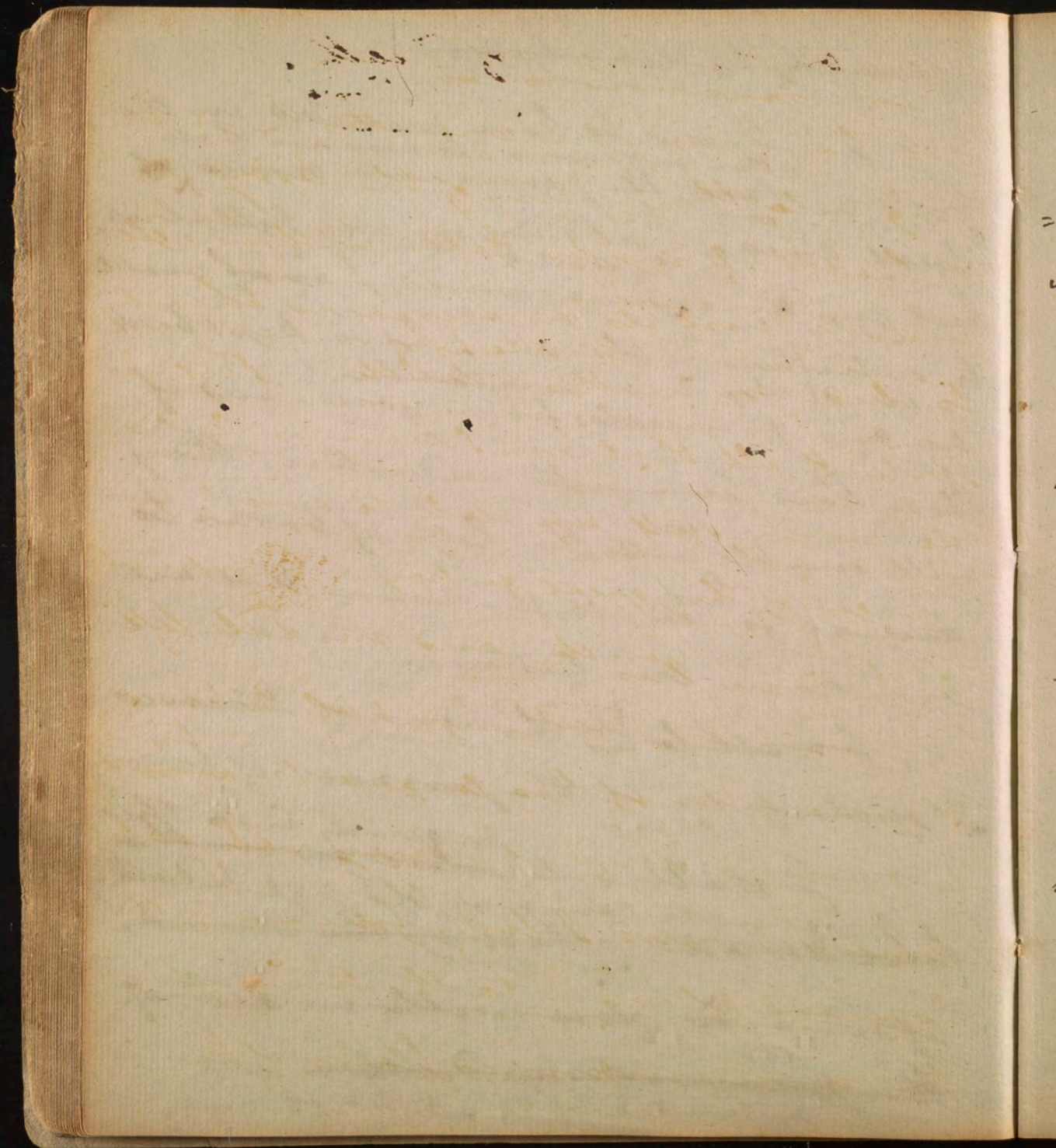
~~completeness of mankind.~~

I intended to have proceeded in the
^{other cutaneous diseases and of all}
 history of ~~all~~ the proximate causes of
^{that are}
 & local diseases, set down in our syllabus,
^{for lecturing}
 but our time, being expired, I ~~was~~ ^{am} unable
 to enter upon them. I have kept back
^{of my} ^{in medicine}
 no one principles from you - and if
^{you}
 these have been well understood, they
 will enable ^{you} with the help of books to
 account for all the diseases that are
 omitted in our lectures.

I shall ~~do~~ ^{of the signs of Diseases}
 I spoke fully in the prognosis of fevers.

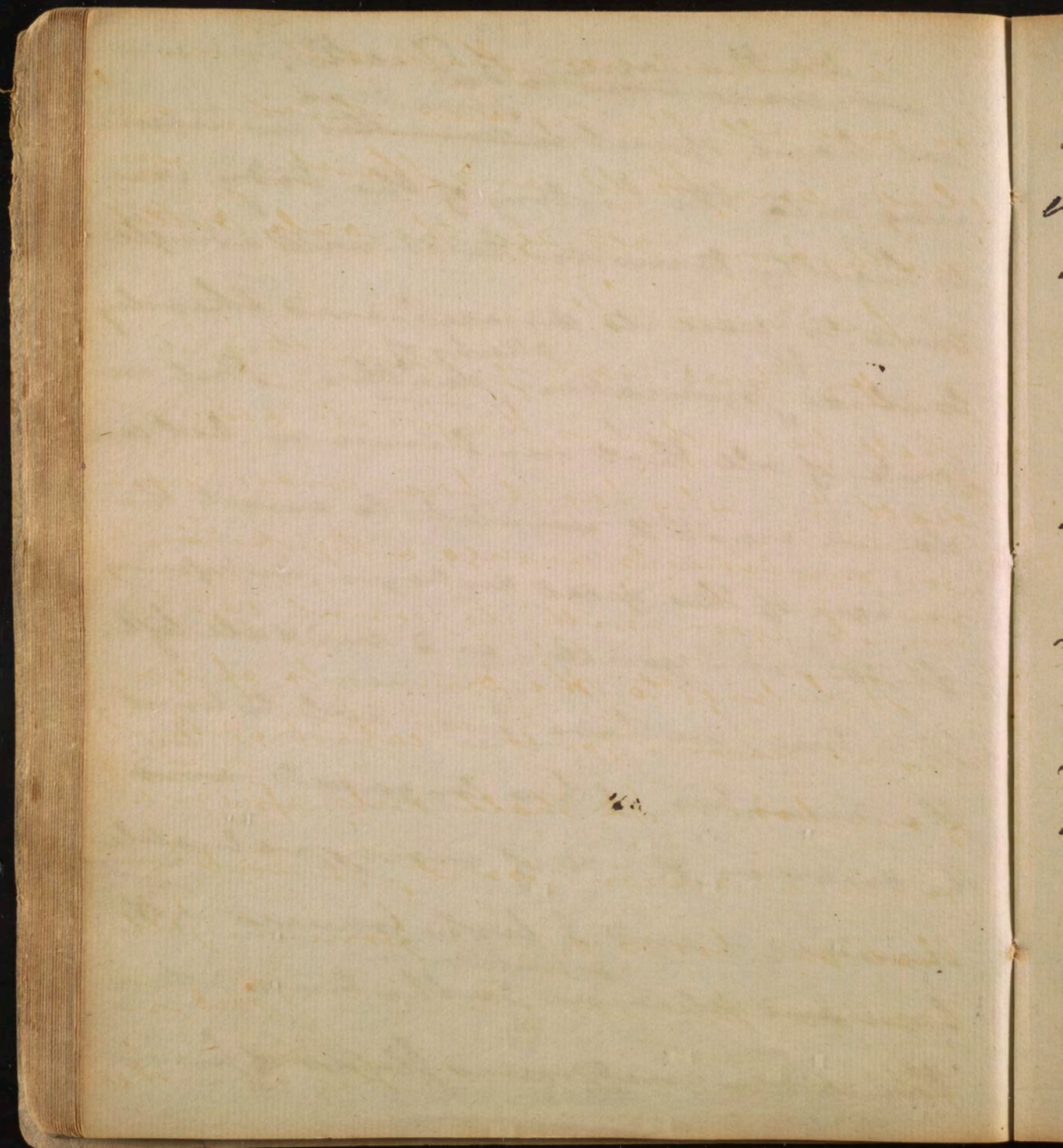
I shall only ^{inquire into the}
~~select from the~~
 proximate cause of old age & Death.
~~local diseases - those of the mind,~~

~~afterwards, close with an acc^t of~~
~~the proximate of Death.~~
 in practice of Physic &c 12. -



On the Cause of Death.

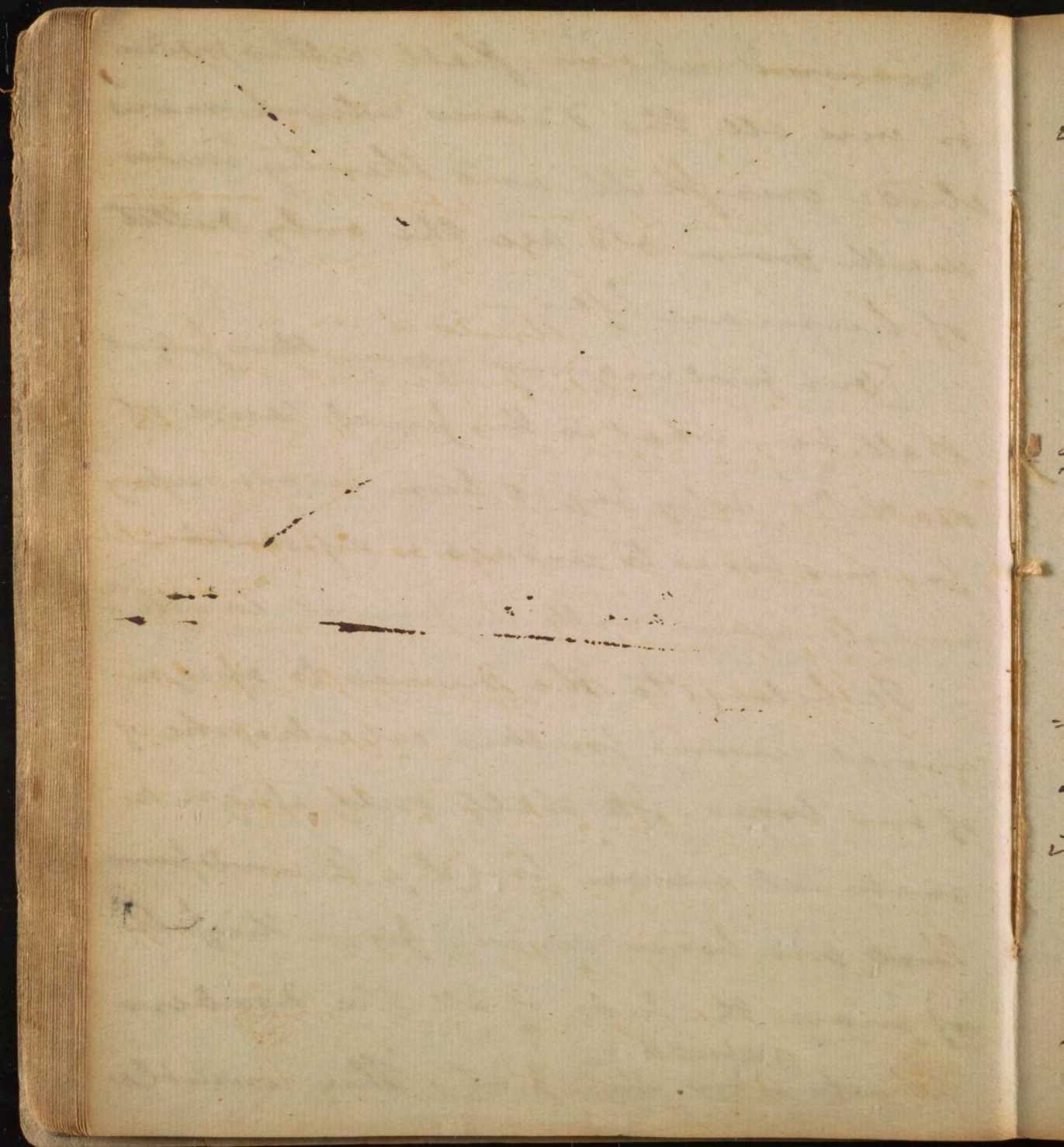
~~We have spent some time~~
 We have spent ~~some time~~ in inquire-
 -ring into the history of the body in
 its healthy & morbid states - with a single
 view to cure its diseases, and thereby
 to elude ^{the} premature ^{attacks of} death. But in
 spite of all that our Science or Art can
 do, we are still unable to arrest the
 ravages of this great destroyer, in Infancy
 - Childhood - youth - and middle life.
 It is true - we have been able to limit
 the number of his conquests ^{by} ~~and~~
 the discovery & use of many valuable
 remedies - and I look forward with
 hope ^{& confidence} ~~and pleasure~~ to the time, when
 the more improved states of science,



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reason & religion, shall either prevent,
or cure all the diseases which now
cloud our skill, and thereby render
death from old age the only outlet
of human life. —

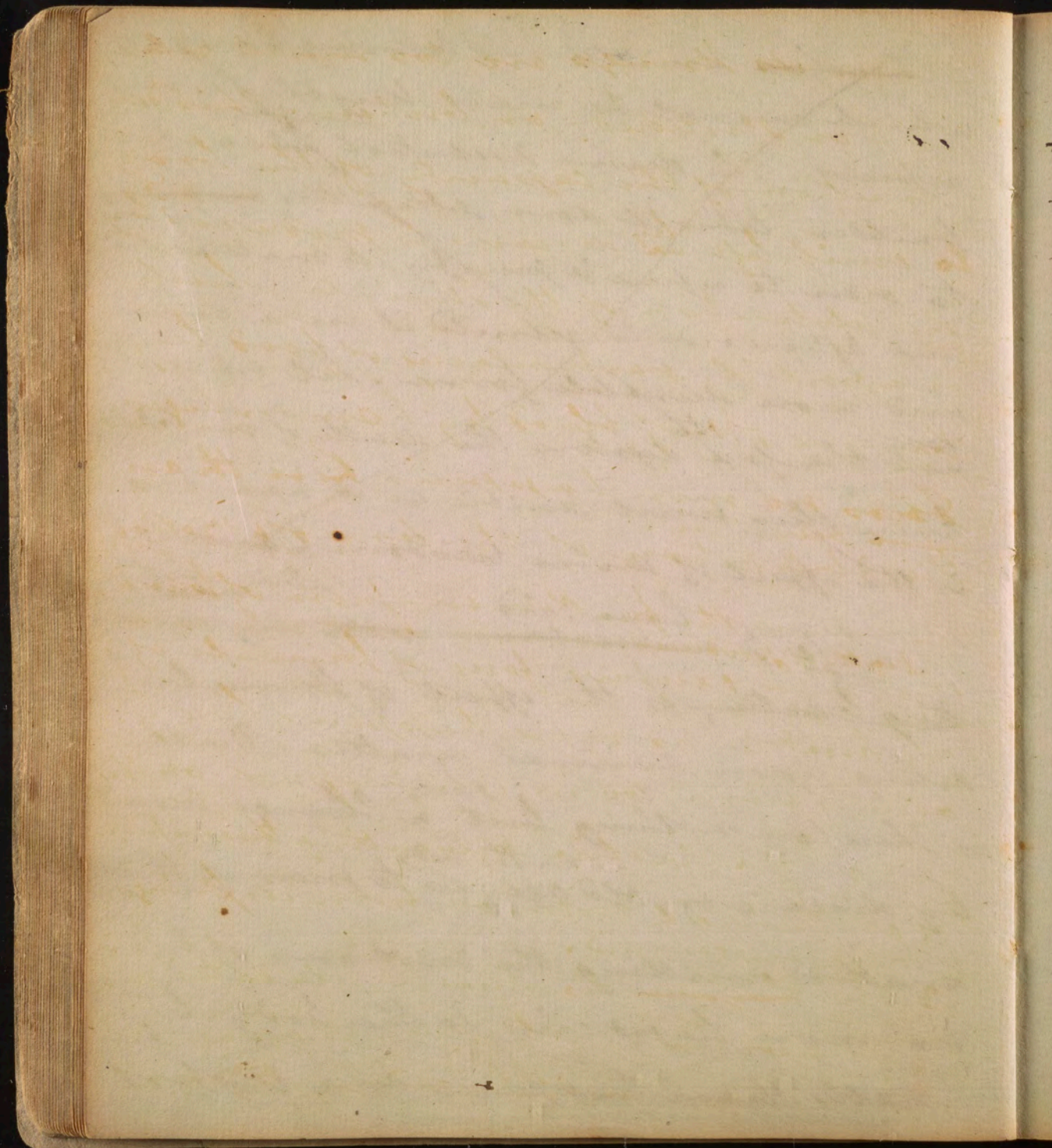
[Our first inquiry upon this subject
shall be - what is the final cause of
death? - why has it been made necessary
for our bodies to undergo a dissolution &
mingle again with its parent earth?
- It belongs to the Divines to assign
moral reasons for this catastrophe of
of our bodies. ~~It~~ shall only assign a
natural reason for it. - ~~It would seem~~
that our bodies derived from the fall
of man the seeds of all the disorders
which now ^{infect &} distress it. They resemble



~~Therefore an old and tottering house~~
 which cannot be made ~~terrible~~ ^{terrible} by any
 repairs. The divine Architect ~~like a wise~~
 builder, takes it down altogether ~~in order~~
 to order to refine & purify its materials,
 and afterwards to rebuild it in a new
 and more durable form. Let us ~~not~~
~~cease~~ ^{to} therefore deplore the death of our bodies.

Even this event terrible as it appears
 is the effect of divine wisdom (Gordon).
 (at present)

Life I have said
~~is the effect of~~ ~~excitation~~ ~~with~~ ~~may~~ ~~depr-~~
~~ing breath,~~ is the effect of stimuli
 acting upon animal matter. Death
 is therefore nothing but ^{such} a change induced
 by disease or old age ^{on the body}, as to prevent this
 matter emitting the motions of life.
 no more happens to the body by
 death than happens to a Violin

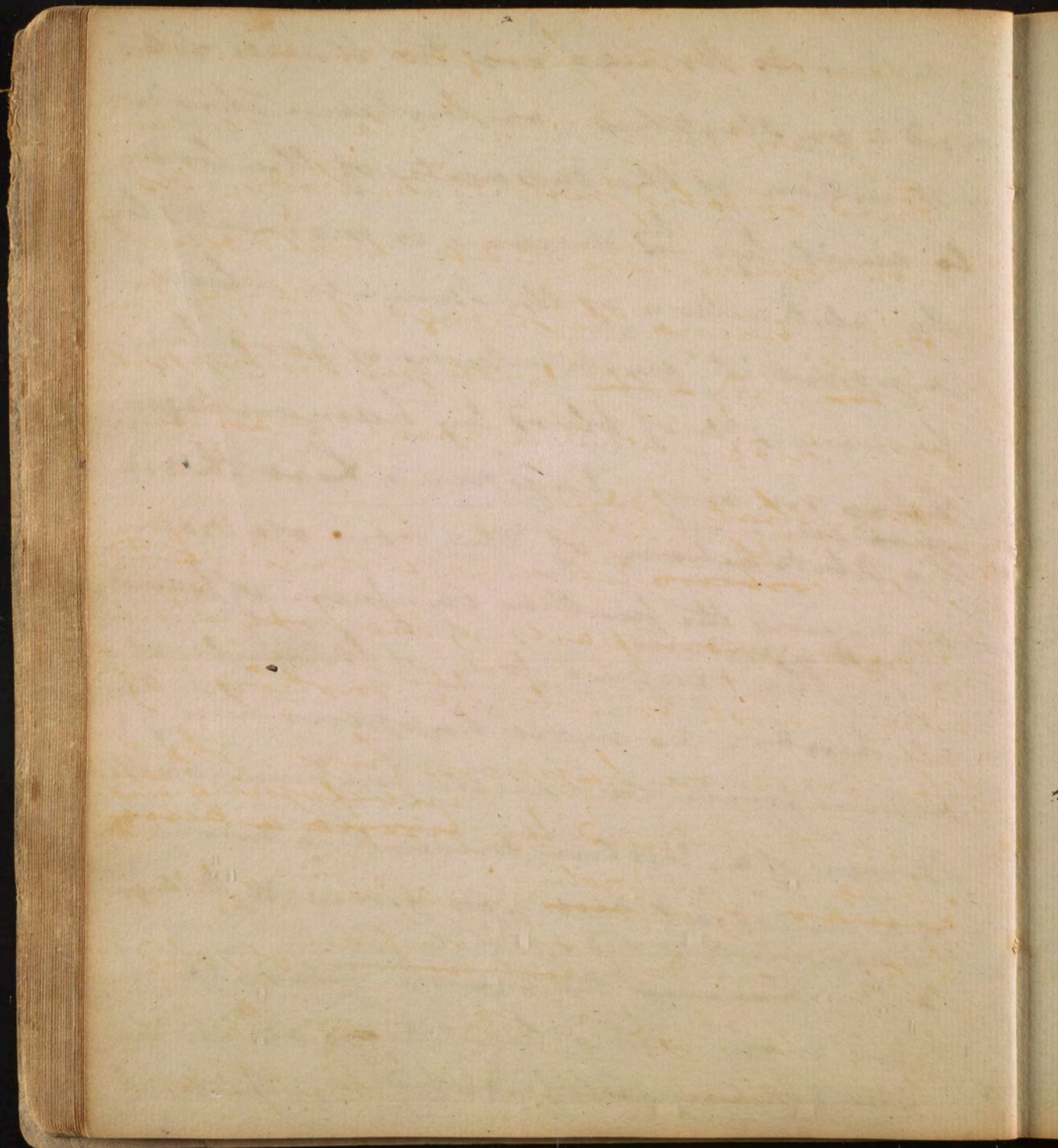


when its strings are too much relaxed - or stretched - or broken. This destruction of the capacity of the body to emit life ^{by} ~~in~~ disease is produced by the abstraction of the stimuli which support it, particularly of food by famine, & of blood by hemorrhages.

~~This~~ no more happens here than ~~what~~ occurs in the abstraction of the bow of a violin, destroying the further emission of sound.

2- ^{Death is produced} By the excessive force of stimuli of all kinds. no more happens here than occurs from too much pressure on the strings of a violin preventing the emission of a musical note, or from its strings being overstrained.

3- By ~~the same~~ too much relaxation. - no more occurs here than occurs in the extinction of sound by the total



relaxation of the strings of the Violin.

4- By an error in the place of certain fluid or solid parts of the body. no more occurs here than what would occur from fixing the strings of the Violin on ~~the~~ ^{its} body of the without the support of the bridges which raise it an inch from that body.

5- By ~~the~~ ^{the} ~~corrosion~~ action of certain vitiated fluids upon parts of the body which irrit most forcibly the motions of life. no more happens here, than what is produced by ~~fixing a piece~~ ^{involving the} strings of a ~~piece~~ ^{Violin} in a piece of Wax.

6 By wounds & ~~destruction~~ ^{the solution} of solid parts of the body. no more occurs here than when the crucifiers

✓ The convulsions & preternatural
strength which sometimes precede
death, are the ^{effects of the unequal action} effects of Stimuli
^{partial} acting upon ^{the remains of the} partial excitability
of the system.

✓ In short -
no more happens to the body from
the destruction of its consistency & cohesion
than happens to a loadstone which when
broken to pieces ceases to possess the
usual qualities of a magnet.

The ^{formation} dissolution of the body by
death is generally accompanied by

of sound is prevented from a Violin,
by cutting its strings. —

& Lastly death is produced
By rigidity and even an ossification
of the Solids. Death from old Age arises
from this Cause. — The Solids ^{here} refuse
to yield to the impressions of Stimuli
from within & from without. NO
more happens here that would happen,
if a Stick - or a pipe Stem were played
in the room of Cat gut upon the body
of the Violin. —

Death then ^{from a variety of causes} is nothing but
an inability or incapacity ^{of an animal}
to receive, and ^{to emit} preserve the
vibrations &
motions of life. ✓

Here then we quit the human
body — ^{pale} cold — motionless — ^{pale} cold — and

pain, but there many exceptions
to this remark. This I took notice
of it formerly, and added that I believe
death often came on ^{like sleep} with pleasurable
sensations. The nature & seat of a
disease has a great influence upon
the pain of dying. ^{Death from} Dissection of the
bowels is ~~far~~ ^{more} perhaps the most pain-
-ful than ~~for~~ when it is seated in
any other part of the body. The marquis
of Mirabeau who died of an inflamⁿ
in his bowels declared that he "felt in
a moment the pangs of a thousand
years". Next in pain is death from
a disease in the ~~bladder & kidneys~~ ^{kidneys} &
bladder - then the head - ^{last of all} ~~lastly~~ ⁱⁿ

tending by putrefaction ^{a mixture of} ~~to a liquid~~ with its native earthy matter. — we are soon to be separated, ~~from each other~~ — ^{probably} never ^{probably} to meet again, — in the exact relation we sustain to each other upon the seats we now occupy in this room. — not so — the particles of matter which compose our bodies. After lying in the grave till the seeds of weakness and disease, are totally destroyed, eradicated from them, — they shall again be united, and every particle which composes them shall occupy its former place in a new and a more durable form. — The analogies of this ^{revival &} reunion of the particles of our bodies are so numerous in the works ^{both of} nature

in the lungs & liver. I shall hereafter
in the Prognosis of fever describe the
Symptoms of death, & shall mention
the means of lessening or destroying
its pains Altogether - for this
is an ^{essential} part of a Course of lectures
on ^{the} practice of physic. It has hitherto
been too much neglected,
from a mistaken idea that the
business of a Physician is only
to cure Diseases. His business
is to lessen human misery in all
the forms in which it attacks the
body of man. I shall only add
here that Death from old age
is attended with no pain. It is

I art, that to a candid philosopher
~~it would not~~
~~and even~~ have been deemed a thing
 incredible that God should raise the
 dead," - even tho' revelation had been
 silent upon the subject. To a Christian,
 the prospect of the resurrection of the
 body ^{has ever been considered as} ~~is calculated to~~ ^{banish} ~~to~~
~~off the strongest pillars of his hope, and~~
~~to shake his hope, and to support the~~
~~the best comfort in affliction~~ ^{bodily af-}
~~liction.~~ - But to ~~the~~ ^{the} ~~vision of~~ a Physician,

this prospect of a future reanimation
^{is calculated to afford} ~~not only~~ a
 of the body, ~~must afford double~~ a
 double portion of ^{the} ~~pleasure~~ ^{very} time
~~the~~ ^{the} ~~comfort of a Christian~~ ^{but the}
~~triumph~~ ^{an amiable & virtuous} ~~he beholds a patient~~ ^{restored}
~~support of a philosopher~~
^{or} ~~crowds of his friends & fellow citizens~~ ^{wasted}
 from his hands by disease and
 death. He considers the triumphs of
^{in this case,} ~~death~~ as transitory, and ~~that~~ he looks

comes on with the gentleness
of sleep. In a more improved state
of mankind, death for measles is
predicted in the scriptures. Death
from old age will be universal,
and of course the pains which
now attend it will be unknown.

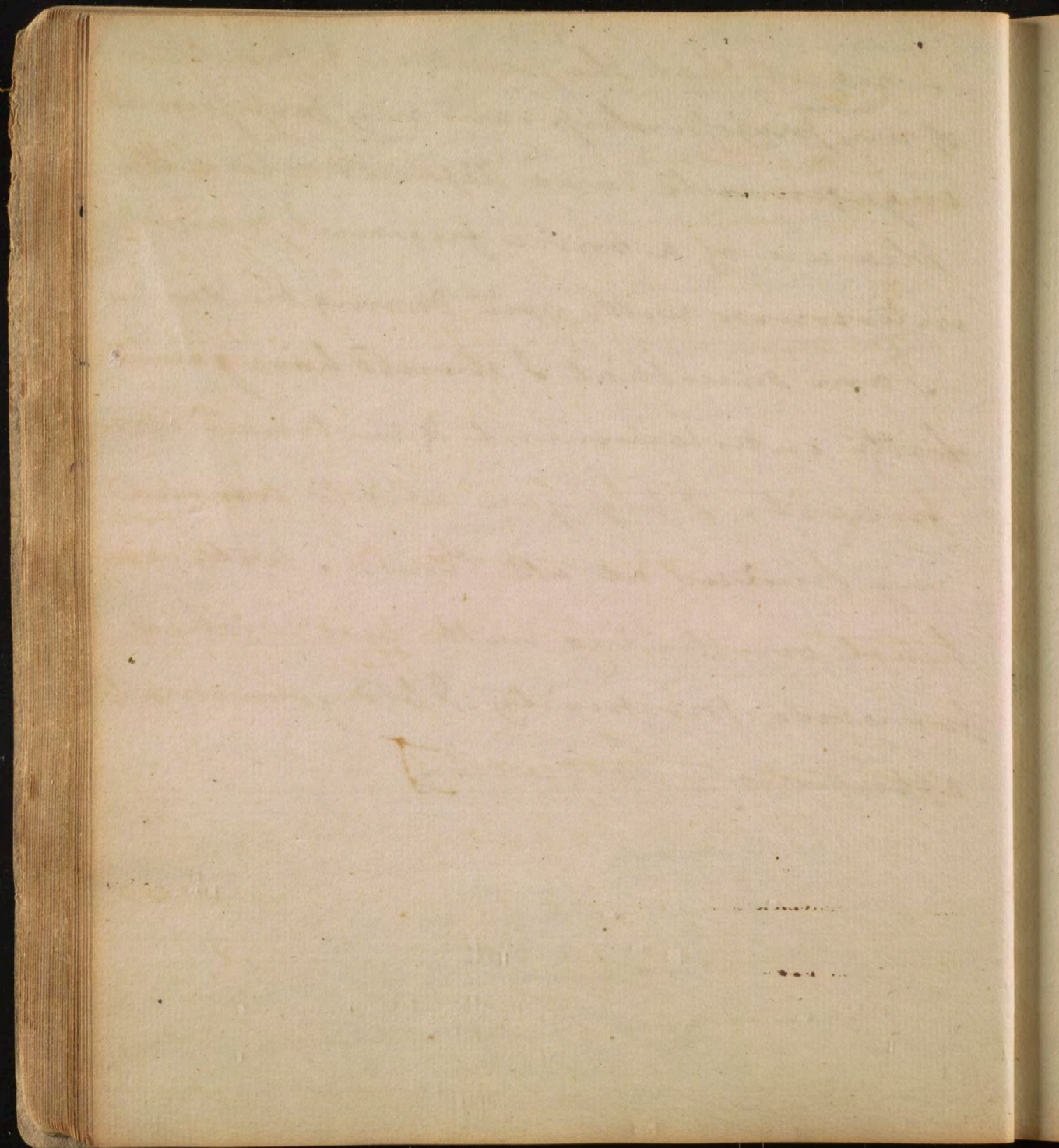
are not a
The signs of death - ~~not cold,~~ or cessation
^{not coldness of the body, not}
of pulse - ~~and~~ ^{stiffness} nor even putrefac-
^{taken separately}
-tion - but a long continued appearance
of all those signs ^{of death} ~~found~~ - Haller de
newer
especially putrefaction.

forward to the joyful morning of the
 resurrection when his departed patients
 and fellow Citizens,
 shall awake from the sleep of death,
 pure - healthy - and ^{capable} for ever afterwards
~~incapable of losing~~ of receiving, and
~~not of enjoying~~ but an immortal
 retaining the stimuli of life. —

With this we close our lectures
 for the present year. Accept of my
 thanks for the attention with w^{ch}
 you have honoured them. I have
 only to excuse their deficiencies, &
 ascribe them to the ~~smallty~~ difficulty
 of my subjects. I cannot examine
 the new principles & practice I have
 taught you with severity & candor,
 and if I have been mistaken in any
 thing — convince me of my error

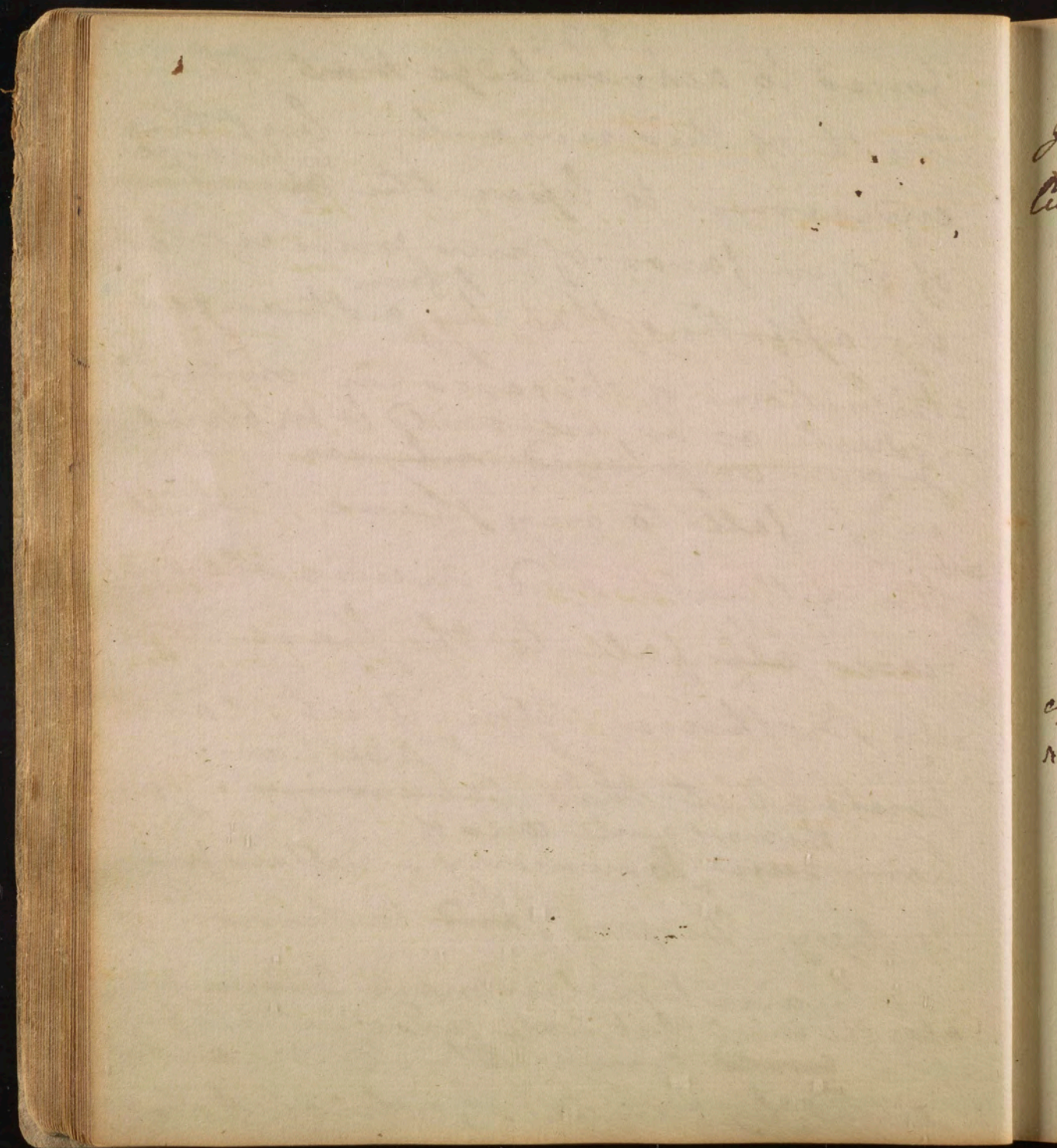
Before I conclude ^{such of}
v I have only to recommend to you
^{as far as} ~~that to resist it~~ about to take a
final leave of the University, not to
suffer the ~~burden~~ of practical duties of
your profession to interfere with the
study of medicine. A Physician who gives
over reading when he enters into practice, will
often be less wise at 50, than at 25. It is in
consequence of having observed how much
Practitioners of Physic are disposed to lay aside
their books, that I have sometimes proposed
that Degrees in medicine should be given only
for a limited time, and that ^{they should be} ~~a Physician~~
~~renewed~~ renewed once in ~~five or~~ seven years
^{upon an examination,}
provided it appeared, that the Candidate had
lost no part of the ^{knowledge} ~~facts~~ during that period
which entitled him to his first degree.

I regret that the peculiar difficulties
of my ^{new} ^{profession}, and my professional
engagements have deprived me of the
pleasure of a more frequent private
intercourse with you during the winter.
— I am sure that I should have gained
both entertainment & instruction
from it. I beg you would command
my services at all times. With a
heart overflowing with best wishes
for your prosperity, I bid you an
affectionate farewell.

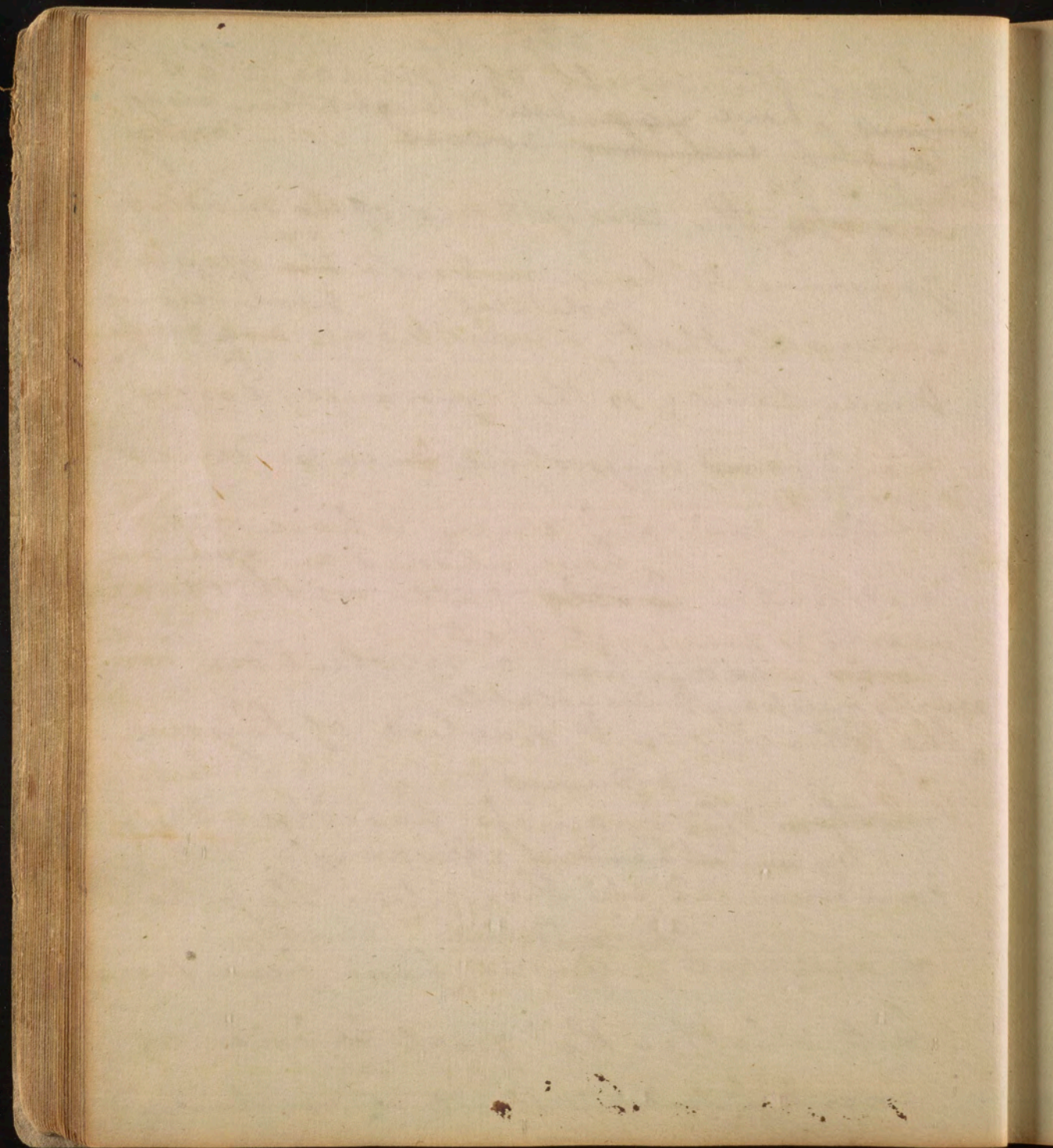


However unpopular ⁵³³ they may be in this city,
They I have had great pleasure
in hearing that they have been adop-
-ted in ~~some~~ ^{several} of the West India Islands,
and in some parts of Great Britain
& Germany. It will be no objection
to them with gentlemen who know
human nature to observe that
they are ~~opposed~~ ^{not} opposed, for
rejected by my Brethren in this
city. One criterion ^{these principles} they possess
~~and that~~ of their being true, and
that is, they lead to a more
~~simple, a more summary, &~~
~~a more~~ successful mode of treat-
-ing all diseases ^{than any that has been proposed.} The gentlemen
who oppose them, have been

forced to acknowledge ~~that~~ the
 truth of this remark - but they
 endeavour to ^{influence} ~~operation~~
 of it, in favor of my principles,
 by asserting, that ^{from} ~~by~~ a strange dis-
 tribution of diseases in our city
 such as are mild & trifling
~~are employed only in~~
 only, fall to my share, while
^{all} ~~the~~ difficult and incurable dis-
^{all} ~~cases~~ ^{all} fall to the share of
 my Brethren. You Gent: can
 contradict this ^{assertion} ~~calumny~~. You
 have seen ^{the most acute cases of} Pneumony - yellow fever,
 Epilpsy - Dropsy, ~~and~~ Contusion of
 the brain & pulmonary Consumption
^{also the most obstinate cases of interm fever}
 all ~~cured~~ completely, or nearly
 cured by Remedies, which have

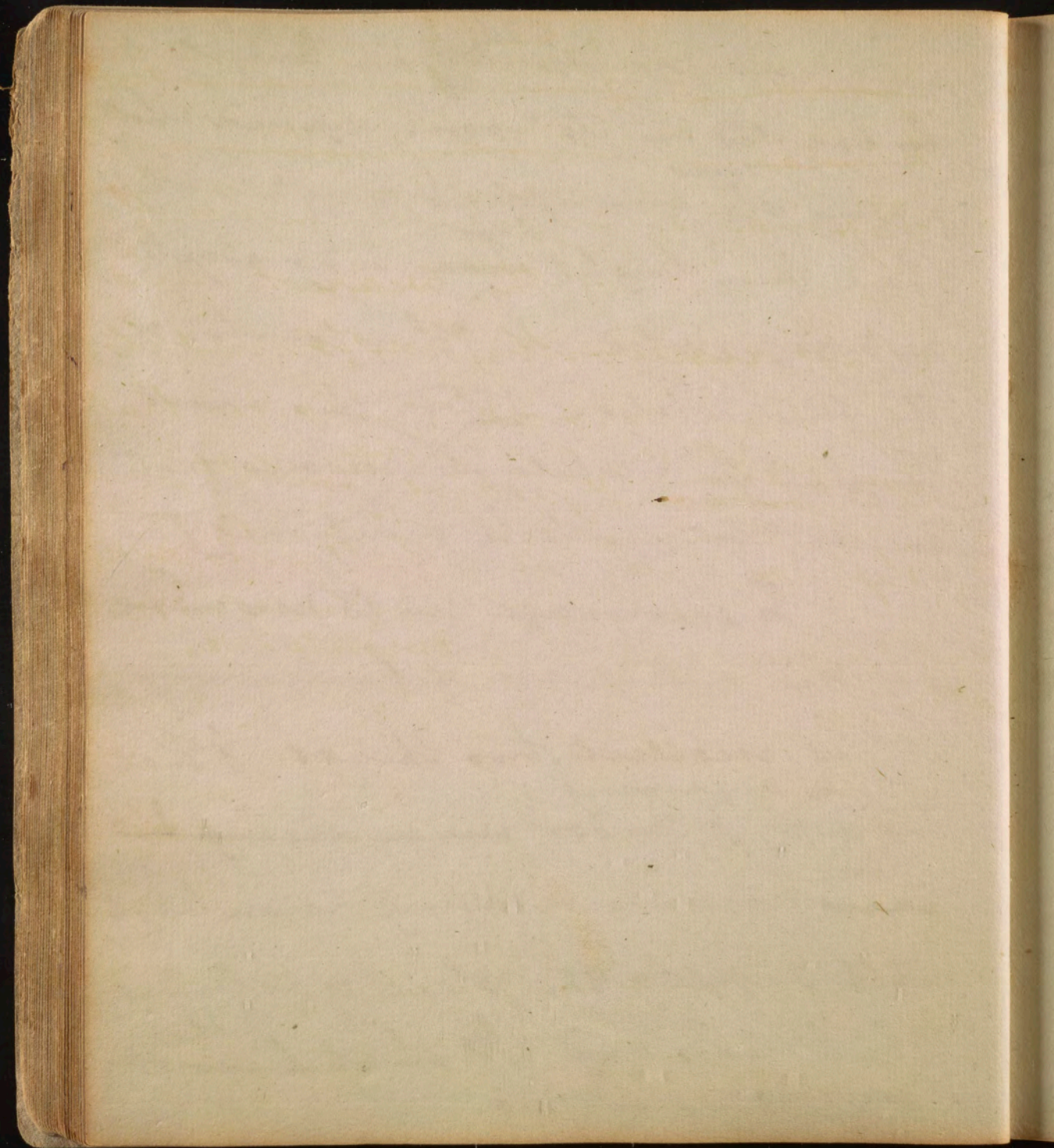


been the result of principles ^{ch} which
 I have ~~have~~ ~~been~~ taught in my
~~taught in these schools~~. — ~~many~~
 Cuius. as
~~micro~~ the corruptions of the modern
 governments have rendered ^{an} the opinion
 universal, that ^{political} revolutions ^{have become}
 & inevitable; so the ignorance, errors,
 fraud, ~~and~~ imposture & impudence
 & murders,
 which prevail every where in
 medicine, ~~loudly~~ ^{have rendered an opinion} call with equal
 nearly as universal, that
~~for~~ ^{is} reason for a revolution ^{is}
 equally necessary & inevitable
 the principles & practice of Physic.
^{arduous} ^{been}
 whether this business has already
^{by} ~~is in the hands of~~ a few men
 commenced in this city. The pillars
 of ancient prejudice ^{in medicine} already
 have been shaken,
 but whether the great fabric of
 error & falsehood shall be overturned,



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and a simple republican temple ^{of medicine} be
be erected in its room, depends wholly
upon the ^{new} principles & practice which
have been taught ^{here} ~~here~~, being adopted
and supported in other parts of
the United States. ~~There they must~~
~~languish for a while, for reasons that~~
~~are too obvious to be mentioned.~~

To encourage us to persevere
in this enterprise of humanity,
let us recollect two things. 1st That
^{in acquiring}
industry & candor ~~in acquiring~~ &
ⁱⁿ
~~have~~ communicating knowledge,
will supply the place of splendid
abilities, and 2^{ly} that ^{the} divine
Supreme Being



in conveying⁵³ new & important
~~providence generally make use~~
~~of weak & unworthy instruments~~
blessings to mankind, frequently
makes use of the weakest, and
most unworthy instruments
for that purpose, in order that
the ^{gratitude} ~~honor~~ & praise ^{due} for these
blessings may be wholly his own.

go back to 532 -
opposite side. -

V Under this gent: I shall introduce
not only an explanation of the causes
of the signs of diseases, but make
such inferences as from them upon
the probable issue of a disease in
life or death ^{as have, been the result of my own} The prognosis in diseases
^{Observations.}
is by no means a part of the duty of
a Physician. It ~~was~~ crept into medicine
when the profession of a the Priest, &
the Physician were united together. The

of the signs of disease —

1 as they appear in partial debility,
direct & indirect.

I need hardly name these signs of debility. They are an inability to perform the motion. I exclude pain in motion or exercise from debility, for pain is always the effect of morbid excitement.

The signs of debility whether direct or indirect are so exactly the same,

that they can only be distinguished ^{its} by taking into consideration ~~the~~ causes — and the habits ^{its} stages of the disease it attacks.

when these circumstances are attended to there will be no danger

V. Debility ~~the~~ ^{the} ~~the greatest~~ ^{is} by no means
the sign of danger. We see it in the
beginning of ~~some~~ ^{from oppression} diseases in which
the system is strongly impregnated
with excitability. It is sometimes
attended with danger in the close of ^{acute} ~~the~~
diseases. Many people die of debility ^{produced}, or
after the removal of the disease ^{which} ~~it~~ ^{created} it. It is of consequence to
know this, in order to prevent death
by obviating it. —

+ Having spoken of the connection of
the pulse ^{the} with the arteries, & ~~of~~ ^{of} the seats of
diseases in them, I go on — de

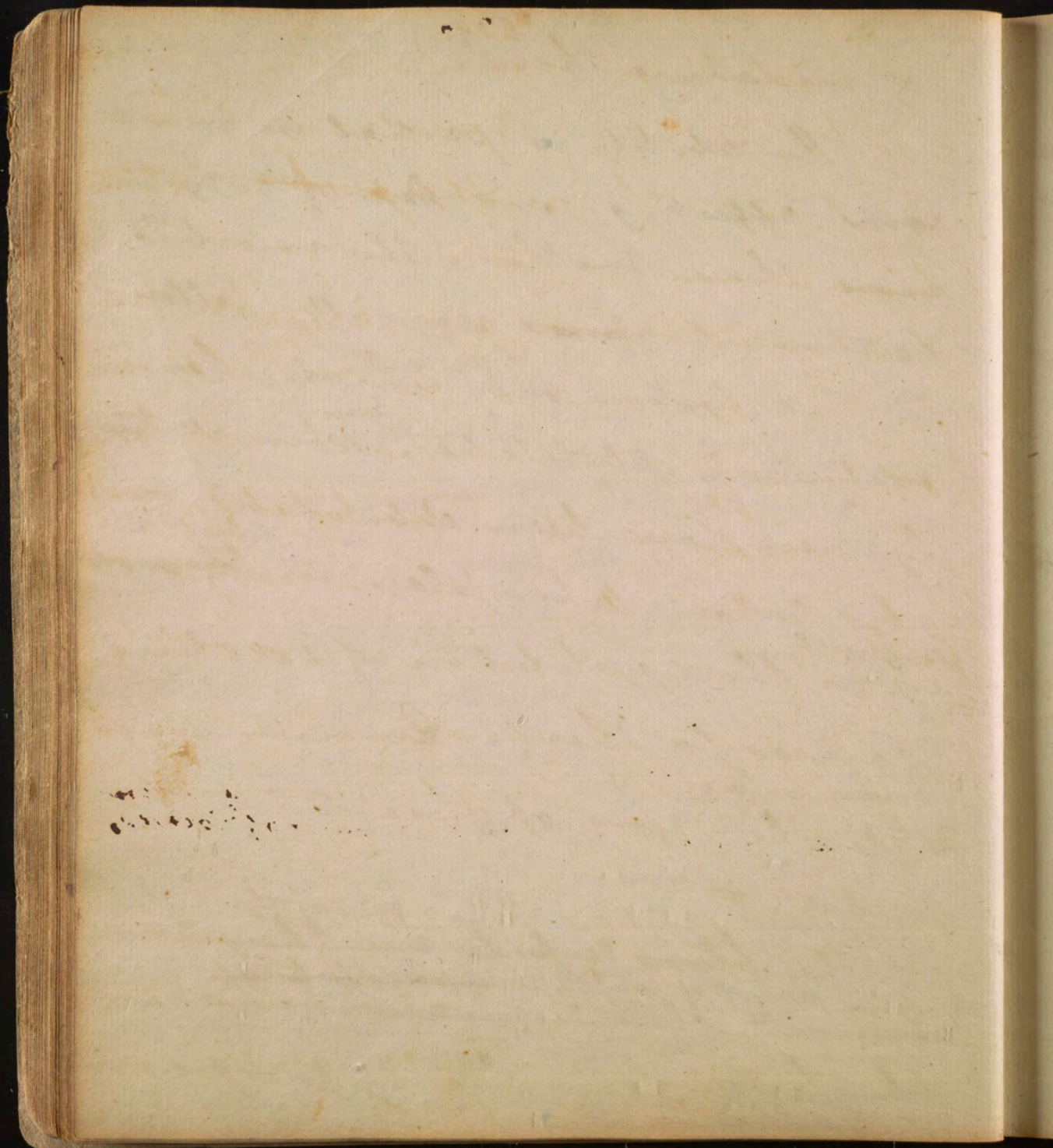
539.

of mistaking them.

The debility is partial in most cases affecting some one of the systems more than another. The morbid excitement ~~always~~ generally follows in that system only which has been exclusively debilitated. ^{Even} when all the systems have been debilitated, morbid action takes place in ^{but a} ~~the~~ part of them upon the application of exciting causes to them. Remember always disease is local. ✓

2 of the signs of diseases in the pulse. +

① The blood vessels ^{occupy the highest} ~~are the primum~~ rank in point of utility & importance in ~~reverses, & ultimately necessary~~ ^{human} the body. It is highly proper



therefore to seek for the signs of health
 and life in them above every other
 part of the body. The ~~pulse~~ ^{pulse} is to the
~~blood vessels~~ not only, indicates the
 state of the blood vessels, but from this
 intimate connection of with all the
 other systems, it indicates more or
 less all ~~its~~ ^{their} morbid Affections. In
 short, the pulse is to the body what
 the dial plate & hands are to a watch.
 It tells us ^{nearly} all that is going forward
 in the body. It is like above all other
 signs ~~the~~ ^a barometer - of a measure of diseases.
 Physicians have often been
 distinguished by their predilection to
 particular symptoms by which
 they judge of the state of the system.

^{one}
+ In ^{our} introductory lectures I mention
the difficulty of relying upon any one
of them. [repeat them]

V It is somewhat surprising that
Hippocrates & Celsus knew and say
so little about it. Galen was the
first Physician among the Ancients
who attended to it. ~~Q~~

~~There are~~ have been, & these are
Some have chosen the ~~tongue~~ ^{tongue},
some the respiration, some the
countenance & some the excretions
of Urine, feces & sweat. ~~mine~~ ^{my}
~~system~~ ^{mode of practice} rejects none of these signs,
but it fixes ~~with~~ its principal
attention upon the pulse. ~~say~~ ^{my}
pupils therefore I hope like the
~~few~~ ^{few} while the followers of
will be known every where by their
knowledge & predilection ^{to} of the pulse
in forming a judgement of diseases.

~~The~~ ^{further} In considering this subject
I shall 1 mention the facts which
belong the history of the pulse in
its natural state. 2 I shall mention

V The pulsations in this natural state
of the pulse in point of frequency, are at
equal intervals - soft - open ^{but} vigorous, and
free from a sense of resistance.

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all its varied states and
3^{ly} Delivers a few directions for the
best manner of discovering these
states by the fingers.

I - The natural state of the pulse
in ^{adults} ~~most~~ people in point of frequency
in middle latitudes is ~~about~~ between
60 and 80. Its medium is 66. ✓
~~the force~~ But the following circumstan-
ces have an influence upon its
frequency, ^{& in many instances upon its force.} ~~as well as its~~

1 Age. It is from 130 to 140 on
the day of the birth of a child. During
its first year it is from 108 to 120.
During the 2nd from 90 to 108. Du-
ring the 3rd year from 80 to 108.

It continues at 80 to 108 during the 4th, 5th & 6th years of its life. In the 7th year it falls ^{from 90 to} to 72. At, and after 12, it is the same as in Adults which is ^{from 45 to 50} it is rarely from 60 to 80. In old age, it becomes slow, and intermitting. This is so much the case that a pulse perfectly regular in a very old man is a sign of a disease. The slowness in some cases, descends to 42. 30 & even 26 in some old people, according to Dr Heberden.

2 Sex influences the frequency of the pulse - It is always quicker in ^{women} ~~women~~ than in ^{men} ~~women~~.

3 Different States of Society, or

+ Dr Douxion Louape a physician lately
from Trinidad informed me ⁱⁿ early 24. 1807 ^{or 1807} ~~last~~
Summer, that the pulses of the Indians on
that Island, and on the Coast of South America,
were uniformly less frequent, than the pulses
of the white inhabitants of those Countries. In
the former it from 55 to 60 - in the latter from
65 to 68 in a minute.

~~see Millymiers reports~~ The same
result took place in the State of Georgia in
a number of exp^s ^{at my request} made ^{of this} by Millymer
^{city} upon the pulses of a number of Indians.
They were it is true higher than 60, but less
frequent than ⁱⁿ the traders who lived among
them - and still less frequent than in the
civilized people who attended the treaty wth
Col: Hawkins ^{in founding it at 40 in many exp^s}
there. I wish these ^{to be} remembered for
he made his own thing. ^{He}
Colney has contradicted it in his view of
the ^{days} falsely Dr Barton was present at ^{the}
America - He examined the pulse of an
Indian Chief only, ~~who he whose habit~~ who
lived occasionally among civilized people, &
^{in two hours =}

of civilization influences the pulse.

It is slow in all savages, who ^{want} ~~use~~ ~~not~~ the stimulants of thought & labor to act upon their bodies. ~~But~~ ^{In}

^{in this city}
8 Indians out of 10 in an experiment
~~made in the presence of 6 students of medicine~~
~~I made a few years ago, I found~~
~~the pulse beat 60 but 60 strokes~~
in a minute. ~~in~~ One of the ^{Indians} persons
in whom it was more frequent,
had been sitting by a fire, and the
other I found afterwards was the
son of a Frenchman, by an
Indian mother. ~~to~~ go to 1. of new
^{writing.}

~~Country~~ The inhabitants of
the country whose minds are

V It is quicker in a warm, climate
than in a temperate & cold climate, & it
is quicker in new comers in the W Indies
than in old inhabitants, - and in newly
imported, than in old slaves under equal
Circumstances of Age. Eg: In ^{a white} new comers
in Demerary - the medium pulse of the
^[Lecteria pacifica] pulse in a heat between 90 & 100 is 82 -
In our old Lettlers 70 - is a newly arrived
slave 88 - in an old slave 82 - according to
Dr Whistholm vol II. p 468.

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but little excited by constant business,
news, and conversation than the
~~inhabitants of large towns, the pulse~~
have slower pulses than the inhabitants
of large cities. — I wish these
experiments could be extended to dif-
ferent nations, & ~~dis~~ to all the differ-
ent occupations of men.

4. Sex influences the frequency of the
pulse. It is ~~more~~ quicker in short,
than in tall men. In very large men it
has been observed to be but 55. Haller —

5. Climate & season influence the
frequency of the pulse. ~~It is about 100 in the~~
West Indies. It is slower
in a ~~the~~ cold climate than a warm

one. In Greenland it is seldom above
60. It is slower in winter, than

~~see this ledger vol. 14 p 668~~

= When at hours upon animal diet. In this
man he says his pulse was as quick as his own,
- This I dare say was true. I perceived the same
thing in several of the Osage Indians who ^{in the fall} ~~last~~
1804 visited this city, but it was after they had
had their senses acted upon the new sights & sounds
& smells of our city & ~~stayed~~ ^{for} several days, & their
~~before~~ blood vessels excited by ^{an} unusual quantity of animal
aliments. &

an exalted state of the system. This
was ^{in the case} in Mr. Clymer's experiment ^{upon the Indians.}

In a ~~case~~ person in whom it was 64 at 7 o'clock 76 mid
71 6 p.m. In another 52 7 o'clock 65 m. 56-6 p.m. midday
In a third 67 7 o'clock 76 mid 72 6 p.m. midday.

+ In this ordinary animal state, the fact
I believe is uniformly true. I shall say presently
that the exercises of the understanding ^{of the Indians} ~~and~~ ^{of the Indians}
affect the pulse; now as the understandings of Indians
are ~~ordinarily employed~~ generally in a quiescent, or
torpid state from the limited number of subjects
which occupy them, & those subjects only for a
short time, it is no wonder their pulses are slower, or
less active, than the pulses of civilized people.

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in summer. It even varies in with the
increase of heat & cold in all the months of the year.

6 Different times of the day influ-
-ences the frequency of the pulse = ~~is~~

= It is slowest in the morning - increases till mid:

= day - Is stationary till 2 o'clock; - when it descends

till 8 o'clock; - then it rises a little. It is again

renewed in sleep; - but rises again in frequency till

two hours before morning, when it again descends

till 7 o'clock - ^{at which hour it is} ~~after which it rises & descends & rises~~

at its greatest weakness ^{from 4} ~~at 7 o'clock~~ It gradually

rises till twelve or midday, & thus performs

the same revolutions every day. I shall hereafter

say these changes in the pulse in the night are

influenced by a difference in the weight in the

Air - as discoverable by the Barometer.

(turn up this paper)

same =

~~see this ledger vol. 14 p 668~~

= When at hours upon critical diet. In this
man he says his pulse was as quick as his own,
- This I dare say was true. I perceived the same
thing in several of the Osage Indians who ^{in the year} 1804
visited this city, but it was after they had
had their senses acted upon the new sights & sounds
& smells of our city & ~~stayed~~ for several days, & their
~~human~~ blood vessels excited by an unusual quantity of critical
effluvia. & an exalted state of the system. This
was the case in our ^{upon the Indians.} Plymouth Experiment.

In a ~~case~~ person in whom it was 64 at 7 o'clock 76 mid
71 6 p.m. In another 52, 7 o'clock 65 m. 56-6 p.m. midday
In a third 67, 7 o'clock 76 mid: 72 6 p.m. midday.

+ In this ordinary natural state, the fact
I believe is uniformly true. I shall say presently
that the exercises of the Understanding ^{of the passions} & of the passions
affect the pulse; now as the Understandings of Indians
are ~~ordinarily employed~~ generally in a quiescent, or
torpid state from the limited number of subjects
which occupy them, & those subjects only for a
short time, it is no wonder their pulses are slower, or
less active, than the pulses of civilized people.

7 ~~Light has a great influence upon the~~
The pulse ~~is~~ ^{is} ~~increases~~ and lessens with different
degrees of light and darkness. It is great consequence
to attend to this fact in judging of a disease by
the state of the pulse, and in prescribing for
diseases particularly those of a febrile nature.
Light and darkness are both hurtful & useful
according to the state of the system in which
they are applied. I shall hereafter explain
certain phenomena ascribed to lunar
attraction, chiefly to the effects of light &
darkness upon it.

~~Now, and again~~ ^{is a difference of}
According to Dr Haller, there ~~are~~ ^{is} 15 strokes
beats between the morning & evening
viz: 65 & 80. In some cases there is a
diminution of frequency at night ~~from~~
It differs as to frequency in the

~~Sleeping, & waking states. It is much~~
~~from some of the energy or stimulus of the mind or~~
~~light & darkness.~~ ^{It is from 80 to 90}
lowest in sleep. After waking, but soon falls to 70 & below it.

B. Different positions of the body
affect the frequency of the pulse.

It is slowest when we lie on our
backs - It is quicker when we sit

11⁺ Food and drinks affect the pulse. It is quickened by a full meal, and by distilled & fermented liquors. It is reduced in its frequency by fasting.

✓ 10 Different positions of the Arm affects the pulse. It is much reduced in frequency by being uncovered, and by the pressure upon the body upon it in bed, when the patient lies on his side. + see above

12⁰ Exercise quickens the pulse. a pulse which is 64 in a person while sitting, is 68 when standing, to 90 & 112 in many people.

78 walking at the rate of two miles an hour - 58 when walking four miles an hour.

140 to 150 when running.

15th Pregnancy influences the pulse. It is more active than natural & as soon as conception

up. and quickest when we are in
an erect posture. V

12. The exercise of the Understanding & of certain
all the passions of the mind affect

the pulse. The stimulating passions
eg anger increases to 104 strokes in a minute.
give impart quickness & force to it.

The simply ~~de~~ sedative passions as
grief, fear &c reduce it in frequency
& force, provided it be felt before

otherwise it is accelerated by stimuli
acting upon ^{the} accumulated excitab.
which has been accumulated by those

debilitating passions. go to 1. now writing

13. Conversation quickens the pulse

20. It belongs to the natural history
of the pulse to take notice, that in

some persons in good health, it is
preternaturally slow I was Chippooles

takes place, and this activity is increased at the times
in which the menses ordinarily flow. ‡
even in pregnant women as well as others.
‡ Such a pulse is ~~marked~~ indicates a
high fever at 60.

‡ In the Rev^d Mr Clayton of Liverpool
it was at 100 - until he had a severe
fever - ever after w^h it was between
60 & 70. Dr Whyt mentions a person in whom
it was 120 in its natural state. In a fever in this
person it was 180 when convalescent it was
140 when lying & 220 when in sitting posture.
‡ It is further ~~increased~~ with difficulty in
very fat people from fat compressing, or
burying the artery.

(a) - a kind provision of the author of nature!
- we see external diseases, but internal ones
are concealed from us.

16 ‡ Certain ~~and~~: in fluence the state of
the pulse - as opium - Bark - Blisters - the
last according to parts to which they are applied.
see Borden. Vol 2 p 22. 17 a Quagha 18 Lian
have over to date 07 - 549

I have read of its beat about 548 & with good health
but 407 In others it is preternaturally
quick [Mr. Peters 100] In some the
artery, we commonly feel, runs
above the Radius parallel with the
Thumb. It is of consequence to know
these diversities from nature, when
they occur in our habitual patients.
Indeed a great advantage would
arise from knowing the exact
state of ^{the pulse} every patient we attend
in its ordinary & healthy state.

II. we come next to inquire into
the morbid states of the pulse. ~~But~~
~~one 548~~
It departs from order and health,
1 In frequency, and quickness. By
frequency is meant the number of

+ This subject ~~does~~ in another place; at present
 I shall only ^{repeat} remark that the sympathy
~~with~~ between the pulse & diseased parts is
 not with exact spots diseased, but with
 the parts contiguous to it. In inflamⁿ: ~~for~~
 I shall say hereafter the ~~more~~ circulation is
slower than in healthy parts. It even ceases
 altogether in some cases. ~~This~~ This has been
 observed by a microscope. The increased action
 is a turgor, or lay behind the inflamed part, & it is
 this action which produces corresponding ^{turbid} actions
 in the radial artery. The absence of it produces
 what has been called ^{or atrophy} passive inflamⁿ: - It is ab-
 sent in all those cases in which we find signs
 of inflamⁿ after death, without previous fever,
 or morbid action in the pulse. -

Let not ~~the~~ exceptions that have ^{been} ~~not~~
 mentioned to the Union in the pulsation
 of the arteries call in question the advantages

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